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Lea's Unionid Types

or

Recent and fossil taxa of Unionacea and Mutelacea introduced by Isaac Lea, including the location of all the extant types

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Isaac Lea (1792-1886) LL.D. Harvard 1852

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Addenda to be included with:

Lea's Figured Unionid Types (1974)

By Richard I. Johnson

This list is for inclusion with Johnson (1974) who relied on the work of Richards and Old (1969) as the last word on the location of the Unionid types which Isaac Lea figured from the J.C. Jay and W.A. Haines collections both of which are housed in the American Museum of Natural History, New York City. Recently, Boyko and Sage (1996) relocated a number of these which were overlooked by Richards and Old, and selected them as lectotypes under article (74 b) of the International Code of Zoological Nomenclature (1985). They were all refigured. Under the earlier Code Johnson would have called them "figured holotypes." Complying with present Code, Johnson's previous designations, unless Lea clearly had single specimen, must be regarded as lectotypes inadvertently selected. The newly located lectotypes, as well as a figured syntype, and a probable one are listed here. The location of paralectotypes is not included.

- bairdianus Lea, 1857, Unio: (Devils River, [Val Verde Co.], Texas, Lea collection and Smithsonian Institution [not found]; "Mississippi" loaned by J.G. Anthony). Male specimen thought to be the one loaned to Lea, probable syntype MCZ, 316413.
- callosus Lea 1841, Unio: (Ohio Canal...Ohio [erroneous, Central America]; J.C. Jay collection, Holotype AMNH 30561, only specimen, refigured by Boyko and Sage (1996: 24, fig. 8).
- cucumoides Lea 1840, Unio (Hunter's River, New South Wales, Australia; J.C. Jay collection). Holotype AMNH 30897, only specimen, refigured by Boyko and Sage (1996: 24, fig. 9).
- hainesianus Lea 1856, Unio: (Siam [Thailand]; W.A. Haines collection). Lectotype AMNH 31070 is the specimen figured by Lea, refigured and selected by Boyko and Sage (1996: 25; fig. 10).
- lutens Lea 1856, Unio: (Newville, Burma [Myanmar]; W.A. Haines collection). Holotype AMNH 29109, only specimen, refigured by Boyko and Sage (1996: 26, fig. 11).
- montezuma Lea 1841, Anodonta (Central America; J.C. Jay collection). Holotypes AMNH 30871, only specimen, refigured by Boyko and Sage (1996: 11, fig. 2).
- sloatianus Lea 1840, Unio: (Chattahoochee River, Georgia; J.C. Jay collection). Holotype AMNH 56104, only specimen, refigured by Boyko and Sage (1996: 27, fig. 12).
- subcylindracea Lea 1838, Anodonta: (Oak Orchard Creek, Orleans Co., New York; Lea collection [not found]; J.C. Jay collection) Syntype AMNH 31131a) figured by Boyko and Sage (1996: 11, fig. 3).

LITERATURE CITED

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- Johnson, R. I. 1974. Lea's Unionid types or recent and fossil taxa of Unionacea and Mutelacea introduced by Isaac Lea, including the location of all extant types. Special Occasional Publication No. 2 Department of Mollusks, Museum of Comparative Zoology, Harvard University, Cambridge, Massachusetts; pp. 159.
- Richards, M.C. and W.E. Old, Jr. 1969. A catalogue of molluscan type specimens in the Department of Living Invertebrates, the American Museum of Natural History.

 Department of Living Invertebrates, American Museum of Natural History. 147 pp.

R.I. Johnson 1998

LEA'S UNIONID TYPES

or

RECENT AND FOSSIL TAXA OF UNIONACEA AND MUTELACEA INTRODUCED BY ISAAC LEA, INCLUDING THE LOCATION OF ALL OF THE EXTANT TYPES.

By Richard I. Johnson

Between 1828-1874, Isaac Lea described as new 851 species of Unionacea and Mutelacea, recent and fossil. Only three of the recent species were not figured by Lea; the fossil ones, initially unfigured, were subsequently figured by Whitfield (1885). All but 86 of Lea's measured or figured types have been located. Among these species for which the figured types could not be located are lectotypes, syntypes or quasi-authentic material for 38 of them.

While the majority of Lea's figured types are in the National Museum of Natural History, quite a number are in the Academy of Natural Sciences of Philadelphia (Johnson, 1973); some are in the British Museum (Natural History) (Johnson, 1971); a few are in the Museum of Comparative Zoology (Johnson, 1956) and the American Museum of Natural History (Richards and Old, 1969); and several others are located elsewhere.

Lea spent most of his long life in Philadelphia, Pennsylvania, where he was intimately associated with the American Philosophical Society and the Academy of Natural Sciences. From 1828-1852, with the exception of two small papers (Descriptions of a new Unio [Unio spinosus], 1836, pp. 1-4, col. pl., and Descriptions of Twelve Uniones, 1834, single sheet) all of Lea's new unionids appeared in the publications of the Philosophical Society. Some first appeared in the Proceedings with brief Latin descriptions and a single set of measurements; these were later augmented by more elaborate English descriptions which appeared in the quarto Transactions of the Society with figures of the measured specimens.

From 1852 until 1874, Lea published brief descriptions, still with a single set of measurements, in the Proceedings of the Academy. The measured specimens were eventually adequately described and figured in the second series of the Academy's Journal which was published in large quarto. The monographs from the Transactions and Journal were repaged and issued under the title, Observations on the Genus Unio (vols. 1-5 from the Transactions, 6-13 from the Journal. Three privately printed indices, 1867, 1869, 1874, were also distributed). Lea also wrote four Synopsis of the Family of Naiades (1836, 1838, 1852, 1870); of these all were privately printed, save for the edition of 1838.

Scudder (1885) compiled an elaborate bibliography of the published works of Lea. It included all of the recent unionid taxa introduced by Lea, but not the fossil ones which are included here. Lea attempted to date his taxa from the date that they were read before the Philosophical Society or Academy, which led him into bitter controversy with some of his contemporaries, especially Timothy A. Conrad. Simpson (1900) correctly dated them from their actual dates of publication. He made a few errors, which have been corrected. These are mostly of bibliographic interest and do not involve priority. Correct dates of issue of the publications of the Academy are found in An Index of the Scientific Contents of the Journal and Proceedings of the Academy of Natural Sciences of Philadelphia (1913, Published in Commemoration of the Centenary of the Academy).

Lea often gave several localities where his new taxa were found, as well as the name of the collectors, in his brief descriptions, and did not select types, but he always gave measurements of a single specimen in his preliminary descriptions and later f'gured these specimens. In lieu of the word 'type' under article 73 (b) Int. Code Zool. Nomen. (1964) this is an "equivalent expression" and these specimens are regarded as holotypes.

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liberal in allowing me access to the unionid types in their
charge. While he is long deceased, thanks are due to
William B. Marshall who, following Charles T. Simpson, continued the work of locating Lea's figured types and left a card
catalogue of most of those found in the National Museum.

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 (Mollusca: Bivalvia) in the British Museum (Natural History).

 Bull. British Mus. (Nat. Hist.) 20 (3): 75-108, pls. 1-2.
- 1973. The types of Unionacea (Mollusca: Bivalvia) in the Academy of Natural Sciences of Philadelphia. Proc. Acad.

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References to these volumes, which are repaged reprints, from the Trans. Amer. Philos. Soc. and the Jour. Acad. Nat. Sci. Phila., are given in the text of this paper. Since most of the volumes do not have dated title pages, these data are collected here: 1, 1834; 2, 1836; 3, 1842; 4, 1848; 5, 1852; 6 (1) 1857, (2) 1858; 7 (1), (2) 1860; 8 (1) 1860, (2) 1862; 9, 1863; 10, 1863; 11, 1867; 12, 1869; 13, 1874.

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- 1869. Index to vol. 12 and supplementary index to vols. 1-11 of Observations on the Genus Unio. Philadelphia: [Privately] Printed for the author. $\underline{2}$, pp. 23.
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 59 (2), 1 col. pl. [First edit.].
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RECENT AND FOSSIL TAXA OF UNIONACEA AND MUTELACEA INTRODUCED By ISAAC LEA

The following list is arranged alphabetically by species, giving the year and place of publication of the original description, the type locality (references to the original collector or collectors are included only if this information explains why the type is not in the National Museum, or if the figured type is lost), the publication in which the species was first illustrated, and references to the <u>Observations on the Genus Unio</u>. (Since only the page numbers were changed from the preceeding publication, plate and figure references are not included). Finally, there follows the location of the figured holotype. References to syntypes and quasi-authentic material are included only if the figured type could not be located.

All locality data, contained in brackets, are additions to already published records and are from original labels or modern atlases.

The following abbreviations have been used in this list:

- AMNH -- American Museum of Natural History, New York,

 New York
- ANSP -- Academy of Natural Sciences of Philadelphia,

 Pennsylvania
- BMNH -- British Museum (Natural History)

- JANSP -- Journal of the Academy of Natural Sciences of Philadelphia
- MCZ -- Museum of Comparative Zoology, Cambridge,

 Massachusetts
- PANSP -- Proceedings of the Academy of Natural Sciences of Philadelphia
- PAPS -- Proceedings of the American Philosophical Society
- TAPS -- Transactions of the American Philosophical Society
- USNM -- National Museum of Natural History, Washington, D.C.

- <u>abbevillensis</u> Lea, <u>Unio</u>: 1857, PANSP <u>9</u>: 84 (Abbeville District [Savannah River drainage], South Carolina); 1858, JANSP (2) <u>4</u>: 51, pl. 6, fig. 34; 1858, Obs. <u>6</u>: 51. Figured holotype USNM 85583.
- <u>aberrans</u> Lea, <u>Unio</u>: 1863, PANSP <u>15</u>: 191 (Neuse River, 6 mi E Raleigh, [Wake Co.], North Carolina); 1866, JANSP (2) <u>6</u>: 7, pl. 1, fig. 3; 1867, Obs. <u>11</u>: 11. Figured holotype USNM 85600.
- ablatus Lea, Unio: see under: oblatus Lea, Unio.
- <u>acuens</u> Lea, <u>Unio</u>: 1871, PANSP <u>23</u>: 190 (Holston [Tennessee] River, Concord [Knox Co.], Tennessee); 1874, JANSP (2) <u>8</u>: 27, pl. 8, fig. 24; 1874, Obs. <u>13</u>: 31. Figured holotype USNM 84599.
- <u>acutirostris</u> Lea, <u>Unio</u>: 1866, PANSP <u>18</u>: 34 (South America); 1868, JANSP (2) <u>6</u>: 270, pl. 35, fig. 84; 1869, Obs. <u>12</u>: 30. Known only from the figured holotype USNM 85930.
- <u>acutissimus</u> Lea, <u>Unio</u>: 1831, TAPS <u>4</u>: 89, pl. 10, fig. 18

 (Alabama River; Tait). 1834, Obs. <u>1</u>: 99. Type [lost].
- <u>aequatus</u> Lea, <u>Unio</u>: 1857, PANSP <u>9</u>: 170 (Buckhead Creek,

 Burke Co., Georgia); 1858, JANSP (2) <u>4</u>: 89, pl. 19, fig.

 69; 1858, Obs. <u>6</u>: 89. Figured holotype USNM 85561.

- aferula Lea, <u>Unio</u>: 1864, PANSP <u>16</u>: 109 (Lake Nyassa, Central Africa). Changed to:
- <u>afferulus</u> Lea, <u>Unio</u>: 1866, JANSP (2) <u>6</u>: 34, pl. 13, fig. 34; 1867, Obs. <u>11</u>: 38. Known only from the figured holotype USNM 84058.
- affinis Lea, <u>Unio</u>: 1852, TAPS <u>10</u>: 271, pl. 19, fig. 26

 ([Red River], Alexandria [Rapides Parish], Louisiana);

 1852, Obs. <u>5</u>: 27. Known only from the figured holotype

 USNM 84910.
- <u>africanus</u> Lea, <u>Unio</u>: 1856, PANSP <u>8</u>: 94 (Cape of Good Hope); 1857, JANSP (2) <u>3</u>: 300, pl. 27, fig. 115; 1857, Obs. <u>6</u>: 20. Figured holotype USNM 85233.
- aheneus Lea, Unio: 1843, Desc. Twelve Uniones (Black Creek,
 Florida); 1846, TAPS 9: 280, pl. 41, fig. 9; 1848, Obs.
 4: 38. Figured holotype USNM 86030.
- alabamensis Lea, Margaritana: 1861, PANSP 13: 41 (Talladega Creek, [Talladega Co.], Alabama); 1861, JANSP (2) 5: pl. 16, fig. 249; 1862, Obs. 8: 108. Known only from the figured holotype USNM 86262.

- <u>alata</u> Lea, <u>Spatha</u>: 1864, PANSP <u>16</u>: 109 (Lake Nyassa, Central Africa); 1866, JANSP (2) <u>6</u>: 35, pl. 12, fig. 31; 1867, Obs. <u>11</u>: 39. Known only from the figured holotype USNM 86776.
- alatoides Lea, Unio: 1868, PANSP 20: 164 ([Fish-house], 6
 mi. NE Camden, [Camden Co.] New Jersey; Pleistocene, teste
 Pilsbry, 1896, PANSP 48: 567-570). Measured holotype ANSP
 31521. Specimen figured by Whitfield, 1885, Brach.
 and Lamell. Raritan Clays and Greensand Marls of N.J.,
 p. 249, pl. 33, figs. 3, 4, pl. 34, fig. 6. Is Proptera
 alata (Say).
- <u>amabilis</u> Lea, <u>Unio</u>: 1865, PANSP <u>17</u>: 89 ([Flint River], Butler, Taylor Co., Georgia); 1868, JANSP (2) <u>6</u>: 257, pl. 31, fig. 72; 1869, Obs. <u>12</u>: 17. Figured holotype USNM 84573.
- <u>amazonensis</u> Lea, <u>Anodonta</u>: 1860, PANSP <u>12</u>: 89 (Upper Amazon, Brazil); 1863, JANSP (2) <u>5</u>: 395, pl. 46, fig. 300; 1863, Obs. <u>10</u>: 31. Figured holotype USNM 86724.
 - amoenus Lea, <u>Unio</u>: 1840 PAPS <u>1</u>: 286 (Holston River, Tennessee);

 1842, TAPS <u>8</u>: 200, pl. 10, fig. 12; 1842, Obs. <u>3</u>: 38.

 Known only from the figured holotype USNM 85070.

- <u>ampullaceus</u> Lea, <u>Unio</u>: 1866, PANSP <u>18</u>: 34 (South America); 1868, JANSP (2) <u>6</u>: 269, pl. 35, fig. 83; 1869, Obs. <u>12</u>: 29. Known only from the figured holotype USNM 85614.
- <u>ampulus Lea, Unio</u>: 1872, PANSP <u>24</u>: 157 (Irwins Creek, Mecklenburg Co., North Carolina); 1874, JANSP (2) <u>8</u>: 39, pl. 13, fig. 36; 1874, Obs. <u>13</u>: 43. Figured holotype USNM 85591.
- amygdalum Lea, Unio: 1843, Desc. Twelve Uniones (Lake George,
 Florida); 1846, TAPS 9: 275, pl. 39, fig. 1; 1848, Obs.
 4: 33. Figured holotype USNM 86127.
- anaticulus Lea, Unio: 1861, PANSP 13: 40 ([Tombigbee River]
 near Columbus [Lowndes Co.], Mississippi); 1861, JANSP
 (2) 5: 92, p1. 13, fig. 240; 1862, Obs. 8: 96. Figured
 holotype USNM 84735.
- andersonensis Lea, Unio: 1872, PANSP 24: 155 (Holston River;
 and Clinch River, Anderson Co.; both Tennessee); 1874,
 JANSP (2) 8: 36, pl. 12, fig. 33; 1874, Obs. 13: 40.
 Figured holotype USNM 84691 from the former locality.
- angulata Lea, Anodonta: 1838, TAPS 6: 96, pl. 16, fig. 52

 (Lewis River [Clarke and Cowlitz Cos.], Washington]);

 1838, Obs. 2: 79. Figured holotype USNM 86759, consists
 of a single broken valve.

- <u>angustatus</u> Lea, <u>Unio</u>: 1831, TAPS, <u>4</u>: 114, pl. 17, fig. 43; 1834, Obs. <u>1</u>: 124 (Cooper River, South Carolina). Figured holotype USNM 85896.
- anodontoides Lea, Unio: 1831, TAPS 4: 81, pl. 8, fig. 11;
 1834, Obs. 1: 91 (Mississippi River, Robeson; Alabama
 River, Tait; Ohio River, Taylor). Figured type [lost];
 syntype mentioned as in the ANSP [lost].
- <u>anthonyi</u> Lea, <u>Unio</u>: 1861, PANSP <u>13</u>: 41 (Florida); 1862,

 JANSP (2) <u>5</u>: 197, pl. 27, fig. 266; 1863, Obs. <u>9</u>: 19.

 Known only from the figured holotype USNM 84986.
- apicinus Lea, <u>Unio</u>: 1857, PANSP <u>9</u>: 32 (Othcalooga [Oothkalooga]

 Creek, Gordon Co., Georgia); 1858, JANSP (2) <u>4</u>: 76, pl.

 14, fig. 56; 1858, Obs. <u>6</u>: 76. Known only from the figured type, USNM [lost].
- appressus Lea, Unio: 1871, PANSP 23: 189 ([Tennessee River],
 Tuscumbia [Colbert Co.], Alabama; Tennessee River; Holston
 River, [Tennessee]); 1874, JANSP (2) 8: 12, pl. 3, fig. 8;
 1874, Obs. 13: 16. Figured holotype USNM 84483.
- <u>apprimus</u> Lea, <u>Unio</u>: 1866, PANSP <u>18</u>: 34 (South America); 1868, JANSP (2) <u>6</u>: 263, pl. 33, fig. 78; 1869, Obs. <u>12</u>: 23. Known only from the figured holotype USNM 85167.

- <u>approximus</u> Lea, <u>Unio</u>: 1845, PAPS <u>4</u>: 164 (Red River, Alexandria [Rapides Parish], Louisiana); 1848, TAPS <u>10</u>: 74, pl. 5, fig. 13: 1848, Obs. 4: 48. Figured holotype USNM 85017.
- aquilus Lea, <u>Unio</u>: 1857, PANSP <u>9</u>: 172 (Flint River, Macon [County]; Chattahooche River, Roswell [Milton Co.]; <u>both</u> Georgia); 1858 JANSP (2) <u>4</u>: 92, pl. 20, fig. 72; 1858, Obs. <u>6</u>: 92. Figured holotype USNM 85993 from the former locality.
- <u>aratus</u> Lea, <u>Unio</u>: 1843, Desc. Twelve Uniones (Central America); 1846, TAPS <u>9</u>: 282, pl. 42, fig. 12; 1848, Obs. <u>4</u>: 40. Possible type USNM 84395.
- arcaeformis Lea, <u>Unio</u>: 1831, TAPS <u>4</u>: 116, pl. 17, fig. 44

 (Tennessee River; Vanuxem and Cooper); 1834, Obs. <u>1</u>: 126.

 Type [lost]; 2 specimens USNM 84422, subsequently identified by Lea from G. White.
- arctior Lea, Unio: 1838, TAPS 6: 10, pl. 4, fig. 10 (Ohio
 River, near Cincinnati [Hamilton Co.], Ohio); 1838, Obs.
 2: 10. Figured holotype USNM 86103.
- arcula Lea, Margaritana: 1838, TAPS 6: 71, pl. 22, fig. 69

 (Altamaha [River], Liberty [now Long] Co., Georgia; 1838,

 Obs. 2: 71. Figured holotype USNM 86170.
- <u>argentea</u> Lea, <u>Anodonta</u>: 1840, PAPS <u>1</u>: 289 (Stone's River,

 Tennessee); 1842, TAPS <u>8</u>: 223, pl. 19, fig. 41; 1842,

 Obs. <u>3</u>: 61. Figured holotype USNM 86538.

- argenteus Lea, <u>Unio</u>: 1841, PAPS <u>2</u>: 82 (Holston River, East Tennessee); 1842, TAPS <u>8</u>: 242, pl. 25, fig. 57; 1842, Obs. <u>3</u>: 80. Known only from the figured holotype USNM 84778.
- arkansasensis Lea, Unio: 1862, PANSP 14: 169 ([Ouachita River] near Hot Springs, [Garland Co.], Arkansas); 1862, JANSP (2) 5: 206, pl. 30, fig. 275; 1863, Obs. 9: 28. Known only from the figured holotype USNM 25710.
- arkansensis Lea, Anodonta: 1852, TAPS 10: 293, pl. 29, fig. 56 (Little Arkansas River, where the road to Santa Fé crosses it [Sedgwick Co.], Kansas); 1852, Obs. 5: 49. Known only from the figured holotype USNM 86603.
- asper, Lea, Unio: 1831, TAPS 4: 85, pl. 9, fig. 15 (Alabama River); 1834, Obs. 1: 95. Syntype USNM 84212, marked as the type, but it does not exactly agree with the figure.
- asperatus Lea, Unio: 1861, PANSP 13: 41 (Alabama River, Claiborne [Monroe Co.], Alabama; Coosa River, Alabama); 1861, JANSP (2) 5: 68, pl. 7, fig. 218; 1862, Obs. 8: 72 Figured holotype USNM 84272 from the former locality.
 - <u>asperrimus</u> Lea, <u>Unio</u>: 1831, TAPS <u>4</u>: 71, pl. 5, fig. 3 (Ohio River); 1834, Obs. <u>1</u>: 81. Figured holotype USNM 84174.

- <u>asperulus</u> Lea, <u>Unio</u>: 1866, PANSP <u>18</u>: 133 (Siam); 1868, PANSP (2) <u>6</u>: 280, pl. 38, fig. 94; 1869, Obs. <u>12</u>: 40. Figured holotype USNM 84078.
- ater Lea, Unio: 1829. TAPS 3: 426, pl. 7, fig. 9 (Mississippi
 River, below Natchez [Adams Co. Mississippi]); 1834, Obs.
 1: 40. Figured type not located, syntype USNM 86108.
- atrocostatus Lea, <u>Unio</u>: 1845, PAPS <u>4</u>: 64 ([Alabama River], Claiborne [Monroe Co.], Alabama; [Black Warrior River], Tuscaloosa, [Tuscaloosa Co.], Alabama; [Red River], Alexandria, [Rapides Parish], Louisiana); 1848, TAPS <u>10</u>: 70, pl. 2, fig. 5; 1848, Obs. <u>4</u>: 44. Figured holotype USNM 84015 from the third locality.
- atromarginatus Lea, <u>Unio</u>: 1840, PAPS <u>1</u>: 288 (Chattahoochee River, Columbus [Muscogee Co.], Georgia, Boykin [2 examples]); 1842, TAPS <u>8</u>: 207, pl. 13, fig. 21; 1842, Obs. <u>3</u>: 45. Type may be USNM 83977 which differs slightly from the figure.
- attenuatus Lea, Unio: 1872, PANSP 24: 157 (Savannah River;

 Beaver Creek [a few mi. E Bonaire, Ocmulgee River drainage]

 Houston Co., Georgia); 1874, JANSP (2) 8: 41, pl. 14,

 fig. 38; 1874, Obs. 13: 45. Figured holotype USNM 85974

 from the latter locality.

- <u>aureus</u> Lea, <u>Unio</u>: 1859, PANSP <u>11</u>: 112 (Texas); 1862, JANSP (2) <u>5</u>: 195, pl. 26, fig. 264; 1863, Obs. <u>9</u>: 17. Known only from the figured holotype USNM 84572.
- <u>averyi</u> Lea, <u>Unio</u>: 1859, PANSP <u>11</u>: 281 (Chummagua River, Isthmus of Darien [Panama]); 1860, JANSP (2) <u>4</u>: 269, pl. 44, fig. 149; 1860, Obs. <u>7</u>: 87. Figured holotype USNM 84385.
- bairdianus Lea, <u>Unio</u>: 1857, PANSP 9: 102 (Devils River, [Valverde Co.], Texas); 1860, JANSP (2) 4: 361, pl. 61, fig. 186; 1860, Obs. 8: 43. Figured type not in the USNM [lost]. Listed as in the collections of Lea, USNM and Anthony, not in the MCZ [lost].
- baldwinensis Lea, <u>Unio</u>: 1859, PANSP <u>11</u>: 170 (Carter's Creek, Baldwin Co., Georgia); 1860, JANSP (2) <u>4</u>: 330, pl. 51, fig. 155; 1860, Obs. <u>8</u>: 12. Figured holotype USNM 85420.
- barnesianus Lea, Unio: 1838, TAPS 6: 31, pl. 10, fig. 26

 (Cumberland River, Tennessee); 1838, Obs. 2: 31. Figured holotype USNM 84586.
 - barrattii Lea, Unio: 1852, TAPS 10: 256, pl. 13, fig. 5
 (Abbeville District [Savannah River drainage], South
 Carolina); 1852, Obs. 5: 12. Figured holotype USNM 86010.

- basalis Lea, Unio: 1872, PANSP 24: 161 (Carters Creek, near Columbus [Muscogee Co.], Georgia); 1874, JANSP (2) 8: 48, pl. 16, fig. 46; 1874, Obs. 13: 52. Figured holotype USNM 85703.
- beadleianus Lea, Unio: 1861, PANSP 13: 39 (Pearl River,
 Jackson [Hinds Co.], Mississippi); 1861, JANSP (2) 5: 94,
 pl. 14, fig. 242; 1862, Obs. 8: 98. Figured type not in
 the USNM; syntype USNM 85746; syntype ANSP 41638 from Lea.
- bealei Lea, Anodonta: 1863, PANSP 15: 194 (Leon Co.; Verdigris River; both Texas); 1866, JANSP (2) 6: 26, pl. 9, fig.
 25; 1867, Obs. 11: 30. Figured holotype USNM 86690 from the former locality.
- bealei Lea, Unio: 1862, PANSP 14: 169 (Leon Co.; [Colorado
 River], Rutersville, [Fayette Co.]; both Texas); 1862,
 JANSP (2) 5: 204, pl. 30, fig. 273; 1863, Obs. 9: 26.
 Figured holotype USNM 85305 from the former locality.
- beaverensis Lea, Unio: 1868, PANSP 20: 161 (Beaver Creek [Gaston Co.]; Long Creek [Gaston Co.]; both North Carolina.

 Carters Creek, [Baldwin Co.], Georgia); 1868, JANSP (2)
 6: 297, pl. 44, fig. 109; 1869, Obs. 12: 57. Figured holotype USNM 85598 from the first locality.

- bellulus Lea, Unio: 1872, PANSP 24: 161 (Holston River; Tennessee River; Tennessee River, Mussel Shoals [Colbert and Lauderdale Cos.], Alabama); 1874, JANSP (2) 8: 50, pl. 17, fig. 48; 1874, Obs. 13: 54. Figured holotype USNM 84772 from the third locality.
 - benedictensis Lea, Symphynota: 1834, TAPS 5: 104, pl. 16,
 fig. 48 (Lake Champlain [Vermont]); 1834, Obs. 1: 216.
 Figured holotype USNM 86381.
- bengalensis Lea, Unio: 1838, TAPS 6: 3, p1. 2, fig. 3 (Bengal;
 Burrough); 1838, Obs. 2: 3. Figured holotype Burrough
 colln. in the ANSP [lost].
- berlandierii Lea, Unio: 1857, PANSP 9: 101 ([Rio Grande River]
 Matamoras, [Tamaulipas State], Mexico; Colorado River,
 Texas); 1860, JANSP (2) 4: 369, pl. 65, fig. 194; 1860,
 Obs. 8: 51. Figured holotype USNM 84427 from the former
 locality.
- bialata Lea, Symphynota: 1829, TAPS 3: 445, pl. 14, fig. 24

 (Fresh waters of the South of Asia [Canton, China]);

 1834, Obs. 1: 59. Figured holotype USNM 86356.
- <u>biangulatus</u> Lea, <u>Unio</u>: 1840, PAPS <u>1</u>: 288 (Caney Fork [of the Cumberland River], Tennessee); 1842, TAPS <u>8</u>: 197, pl. 9, fig. 8; 1842, Obs. <u>3</u>: 35. Figured holotype USNM 86120.

- biemarginatus Lea, <u>Unio</u>: 1857, PANSP <u>9</u>: 83 ([Tennessee River], Florence [Lauderdale Co.], Alabama); 1866, JANSP (2) <u>6</u>: 47, pl. 16, fig. 45; 1867, Obs. <u>11</u>: 51. Figured holotype USNM 84608.
- bigbyensis Lea, <u>Unio</u>: 1841, PAPS <u>2</u>: 30 (Big Bigby Creek, Maury Co., Tennessee); 1842, TAPS <u>8</u>: 237, pl. 22, fig. 51; 1842, Obs. <u>3</u>: 75. Figured holotype USNM 84579.
- bilineata Lea, Symphynota: 1831, TAPS 4: 98, pl. 11, fig. 19

 (River Hoogley [about 100 mi above Calcutta] Hindostan);

 1834, Obs. 1: 108. Figured type not in the USNM; syntypes

 ANSP 41876 and 41878 mentioned by Lea as in the ANSP.
- <u>binneyi</u> Lea, <u>Unio</u>: 1845, PAPS <u>4</u>: 165 (Southern states, probably Alabama; South America, <u>teste</u> Simpson, 1900, PUSNM <u>22</u>: 878); 1848, TAPS <u>10</u>: 77, pl. 6, fig. 18; 1848, Obs. <u>4</u>: 51. Known only from the figured holotype USNM 85170.
- bisselianus Lea, <u>Unio</u>: 1867, PANSP <u>19</u>: 81 (Bissels Pond,

 Charlotte [Mecklenburg Co.], North Carolina); 1868, JANSP

 (2) <u>6</u>: 277, pl. 37, fig. 90; 1869, Obs. <u>12</u>: 37. Figured holotype USNM 85373.
- blainvilliana Lea, Anodonta: 1834, TAPS 5: 77, pl. 12, fig. 35
 (Chili); 1834, Obs. 1: 189. Figured type not in the USNM;
 specimens identified by Lea, ANSP 41827.

- blandianus Lea, <u>Unio</u>: 1856, PANSP <u>8</u>: 263 (Othcalooga [Oothkalooga] Creek, Gordon Co., Georgia); 1858, JANSP (2) <u>4</u>: 65, pl. 11, fig. 47; 1858, Obs. 6: 65. Figured holotype USNM 84190.
- blandingianus Lea, <u>Unio</u>: 1834, TAPS <u>5</u>: 101, pl. 14, fig. 44

 (St. Johns River ? Florida); 1834, Obs. <u>1</u>: 213. Figured holotype USNM 85715.
- bourguignatianus Lea, <u>Unio</u>: 1863, PANSP <u>15</u>: 189 (Tigris River, Mosul [Al Mawsil, Irad]); 1866, JANSP (2) <u>6</u>: 54, pl. 18, fig. 51; 1867, Obs. 11: 58. Figured holotype USNM 84731.
- bournianus Lea, Unio: 1840, PAPS 1: 288 (Scioto River, near
 Chillicothe [Ross Co.], Ohio); 1842, TAPS 8: 213, p1. 15,
 fig. 28; 1842, Obs. 3: 51. Figured holotype USNM 84683.
- boydianus Lea, <u>Unio</u>: 1840, PAPS <u>1</u>: 286 (Oak Orchard Creek, Orleans Co., New York); 1842, TAPS <u>8</u>: 216, pl. 16, fig. 32; 1842, Obs. 3: 54. Figured holotype USNM 86126.
- boykinianus Lea, <u>Unio</u>: 1840, PAPS <u>1</u>: 288 (Chattahoochee River, Columbus [Muscogee Co.], Georgia; Boykin); 1842,

 TAPS <u>8</u>: 208, pl. 13, fig. 22; 1842, Obs. <u>3</u>: 46. Type [lost]; specimen USNM 83903, subsequently identified by Lea from Hallenbeck.

- brazosensis Lea, Unio: 1868, PANSP 20: 144 ([Trinity River
 Dallas Co.; Brazos River; both Texas); 1868, JANSP (2)
 6: 309, pl. 48, fig. 122; 1869, Obs. 12: 69. Figured
 holotype USNM 84110 from the latter locality.
- brevidens Lea, Unio: 1831, TAPS 4: 75, pl. 6, fig. 6

 (Cumberland River, Tennessee [teste Errata sheet]; Lyceum
 Nat. Hist. New York); 1834, Obs. 1: 85. Type [lost]; specimen USNM 85349 subsequently identified by Lea from Troost.
- brevis Lea, <u>Unio</u>: 1872, PANSP <u>34</u>: 157 (Conasauga Creek, Monroe Co., East Tennessee); 1874, JANSP (2) <u>8</u>: 35, pl. 12, fig. 32; 1874, Obs. <u>13</u>: 39. Figured holotype USNM 84546.
- <u>bridgesii</u> Lea, <u>Anodonta</u>: 1868, PANSP <u>20</u>: 95 (Lake Nicaragua, Central America); 1868, JANSP (2) <u>6</u>: 291, pl. 42, fig. 104; 1869, Obs. <u>12</u>: 51. Figured holotype USNM 86691.
- brownii Lea, <u>Unio</u>: 1856, PANSP <u>8</u>: 95 (Mocha? Arabia?
 [Probably South America, <u>teste</u> Simpson); 1857, JANSP
 (2) <u>6</u>: 27, pl. 29, fig. 22; 1857, Obs. <u>6</u>: 27. Known only from the figured holotype USNM 86124.
- <u>brumleyanus</u> Lea, Unio: 1841, PAPS <u>2</u>: 82 ([Black] Warrior River, Tuscaloosa [Tuscaloosa Co.], Alabama, Griffith). Changed to:

- brumbyanus Lea Unio: 1842, TAPS <u>8</u>: 245, pl. 25, fig. 62; 1842, Obs. <u>3</u>: 83. Known only from the figured type; returned to Griffith [lost].
- <u>buchanensis</u> Lea, <u>Anodonta</u>: 1838, TAPS <u>6</u>: 47, pl. 14, fig. 43

 (Buck Creek, [not located] Ohio); 1838: Obs. <u>2</u>: 47.

 Figured holotype USNM 86719.
- <u>buckleyi</u> Lea, <u>Unio</u>: 1843, Desc. Twelve Uniones (Lake George and Lake Monroe, Florida); 1846, TAPS <u>9</u>: 276, pl. 39, fig. 2; 1848, Obs. <u>4</u>: 34. Figured holotype USNM 85236 from the former locality.
- <u>buddianus</u> Lea, <u>Unio</u>: 1843, Desc. Twelve Uniones (Lake George and Lake Monroe, Florida); 1846, TAPS <u>9</u>: 277, pl. 40, fig. 5; 1848, Obs. <u>4</u>: 35. Figured holotype USNM 85606 from the former locality.
- bulbosus Lea, <u>Unio</u>: 1857, PANSP <u>9</u>: 172 (Flint River, near Macon [County] Georgia); 1859, JANSP (2) <u>4</u>: 191, pl. 21, fig.
 75; 1859, Obs. <u>7</u>: 9. Figured holotype USNM 84715.
- bulloides Lea, <u>Unio</u>: 1859, PANSP <u>11</u>: 187 (Rio de la Plata [Argentina]); 1860, JANSP (2) <u>4</u>: 264, pl. 42, fig. 144; 1860, Obs. <u>7</u>: 82. Figured holotype USNM 85776.
- burkensis Lea, Unio: 1859, PANSP 11: 112 (Buckhead Creek,
 Burke Co., Georgia): 1859, JANSP (2) 4: 215, pl. 27, fig.
 95; 1859, Obs. 7: 33. Figured holotype USNM 85998.

- burroughiana Lea, Anodonta: 1834, TAPS 5: 105, pl. 16, fig. 49
 (Island of Luconia, near Manilla [Philippine Islands];
 Burrough); 1834, Obs. 1: 217. Figured type not in the
 USNM or ANSP [lost].
- burroughianus Lea, Unio: 1834, TAPS 5: 67, pl. 10, fig. 27

 (River Parana, Province of Corrientes [Argentina];

 Burrough); 1834, Obs. 1: 179. Figured holotype ANSP 41796.
- buxeus Lea, Unio: 1852, TAPS 10: 261, p1. 15, fig. 13 (Abbeville
 District [Savannah River drainage], South Carolina); 1852,
 Obs. 5: 17. Figured holotype USNM 85153.
- cacao Lea, Unio: 1859, PANSP 11: 154 (Chocktahatchie [Choctawhatchee] River, West Florida); 1860, JANSP (2) 4: 344, pl. 56, fig. 169; 1860, Obs. 8: 26. Known only from the figured holotype USNM 85724.
- caeruleus Lea, Unio: 1831, TAPS 4: 95, pl. 13, fig. 25
 (River Hoogley, Hindostan); 1834, Obs. 1: 105; Figured
 holotype USNM 85193.
- <u>cahabensis</u> Lea, <u>Unio</u>: 1871, PANSP <u>23</u>: 190 (Cahaba River,

 Shelby Co., Alabama); 1874, JANSP (2) <u>8</u>: 17, pl. 5, fig.

 14; 1874, Obs. <u>13</u>: 21. Figured holotype USNM 84204.
- <u>cailliaudii</u> Lea, <u>Anodonta</u>: 1860, PANSP <u>12</u>: 308 (Brazil); 1863, JANSP (2) <u>5</u>: 395, pl. 45, fig. 297; 1863, Obs.
 - 10: 31. Known only from the figured holotype USNM 86705.

- <u>calceolus</u> Lea, <u>Unio</u>: 1828, TAPS <u>3</u>: 265, pl. 3, fig. 1 (Ohio); 1834, Obs. <u>1</u>: 7. Possible type USNM 86261.
- <u>caldwellii</u> Lea, <u>Unio</u>: 1858, PANSP <u>10</u>: 118 (Isthmus of Darien [Panama]); 1860, JANSP (2) <u>4</u>: 265, pl. 43, fig. 145; 1860, Obs. 7: 83. Figured holotype USNM 84396.
- californiensis Lea, Anodonta: 1852, TAPS 10: 286, pl. 25, fig. 47 (Colorado River, California); 1852, Obs. 5: 42. Figured holotype USNM 86393.
- <u>caliginosus</u> Lea, <u>Unio</u>: 1845, PAPS <u>4</u>: 165 (Red River, Alexandria [Rapides Parish], Louisiana); 1848, TAPS <u>10</u>: 79, pl. 7, fig. 21; 1848, Obs. 4: 53. Figured holotype USNM 85108.
- callosus Lea, Unio: 1841, PAPS 2: 31 (Ohio Canal, 12 mi. below Columbus, Ohio; Jay [is a Mexican shell teste Simpson]); 1842, TAPS 8: 239, pl. 23, fig. 54; 1842, Obs. 3: 77. Known only from the figured type, not in the USNM or AMNH [lost].
- <u>cambodiensis</u> Lea, <u>Unio</u>: 1856, PANSP <u>8</u>: 103 (Tackrong River, Korat, Cambodia); 1857, JANSP (2) <u>3</u>: 313, pl. 30, fig. 28; 1857, Obs. 6: 33. Figured holotype USNM 84909.
- <u>camelopardilis</u> Lea, <u>Unio</u>: 1860, PANSP <u>12</u>: 92 (North Alabama); 1860, JANSP (2) 4: 355, pl. 59, fig. 180; 1860, Obs. <u>8</u>: 37. Figured holotype USNM 85662.

- <u>camelus</u> Lea, <u>Unio</u>: 1834, TAPS <u>5</u>: 102, pl. 15, fig. 45 (Ohio River); 1834, Obs. <u>1</u>: 214. Figured holotype USNM 84486.
- canadensis Lea, Unio: 1857, PANSP 9: 85 (St. Lawrence River,
 near Montreal, [Quebec, Canada]; 1860 JANSP (2) 4: 268,
 pl. 44, fig. 148; 1860, Obs. 7: 86. Figured holotype
 USNM 84503.
- <u>caperatus</u> Lea, <u>Unio</u>: 1845, PAPS <u>4</u>: 164 (Clinch River, Tennessee); 1848, TAPS <u>10</u>: 75, pl. 5, fig. 14; 1848, Obs. <u>4</u>: 49. Figured holotype USNM 84305.
- capillaris Lea, <u>Unio</u>: 1834, TAPS <u>5</u>: 29, pl. 2, fig. 2; 1834, Obs. <u>1</u>: 141 (Ohio). Figured type USNM [lost]; syntype ANSP [lost]. Known only from these two specimens. USNM 84602 is a larger, subsequently identified, specimen.
- capsaeformis Lea, Unio: 1834, TAPS 5: 31, pl. 2, fig. 4

 (Cumberland River, [Tennessee]; W. Cooper); 1834, Obs. 1:

 143. Figured holotype MCZ 178570 from W. Cooper.
- <u>carbonarius</u> Lea, <u>Unio</u>: 1838, TAPS <u>6</u>: 37, pl. 11, fig. 32 (River Medellin, Mexico); 1838, Obs. <u>2</u>: 37. Figured holotype USNM 84080a.

- carolinensis 'Ravenel' Lea, Unio: 1838, TAPS 6: 5; 1838, Obs.
 2: 5 [nomen nudum]. MS name of Ravenel non Unio carolinensis
 Bosc 1824. Listed under the synonymy of vaughanianus Lea,
 Unio.
- carriosoides Lea, Unio: 1886, PANSP 20: 163 ([Fish-house],
 6 mi. NE Camden [Camden Co.], New Jersey; Pleistocene,
 teste Pilsbry, 1896, PANSP 48: 567-570). Measured holotype
 ANSP 31517, figured by Whitfield, 1885, Brach. and Lamell.
 Raritan Clays and Greensand Marls of N. J., p. 247, pl. 32,
 fig. 3. Is Lampsilis cariosa (Say).
- <u>castaneus</u> Lea, <u>Unio</u>: 1831, TAPS <u>4</u>: 91, p1. 11, fig. 21

 (Alabama River); 1834, Obs. <u>1</u>: 101. Figured holotype

 USNM 84824.
- <u>castus</u> Lea, <u>Unio</u>: 1860, PANSP <u>12</u>: 306 (South Carolina); 1860, JANSP (2) <u>4</u>: 349, pl. 57, fig. 174; 1860, Obs. <u>8</u>: 31. Known only from the figured holotype USNM 84782.
- catawbensus Lea, <u>Unio</u>: 1861, JANSP (2) <u>5</u>: 54; 1861, Obs. <u>8</u>: 58. New name for <u>Unio wheatleyi</u> Lea, erroneously thought to be preoccupied by <u>Anodonta wheatleyi</u> Lea 1857.
- charlottensis Lea, <u>Unio</u>: 1863, PANSP <u>15</u>: 191 ([Sugar Creek], near Charlotte, Mecklenberg Co., North Carolina); 1866,

 JANSP (2) <u>6</u>: 8, pl. 2, fig. 5; 1867, Obs. <u>11</u>: 12. Known only from the figured holotype USNM 85402.

- chathamensis Lea, Unio: 1863, PANSP 15: 191 (Rocky Run,
 Chatham Co., North Carolina; James River near Richmond,
 [Henrico Co.], Virginia); 1866, JANSP (2) 6: 21, pl. 6,
 fig. 19; 1867, Obs. 11: 25. Figured holotype USNM 85672
 from the former locality.
 - chattanoogaensis Lea, Unio: 1858, PANSP 10: 166 ([Tennessee
 River] Chattanooga [Marion Co.], Tennessee; Etowah,
 Coosawattee and Oostenaula Rivers; all Georgia); 1859,
 JANSP (2) 4: 209, pl. 25, fig. 90; 1859, Obs. 7: 27.
 Figured holotype USNM 84729.
- chickasawhensis Lea, Unio: 1861, PANSP 13: 39 (Chickasawha[y]
 River [Wayne and Greene Cos.], Mississippi); 1861, JANSP
 (2) 5: 101, pl. 16, fig. 250; 1862, Obs. 8: 105. Known
 only from the figured holotype USNM 85759.
- chinensis Lea, Unio: 1868, PANSP 20: 150 (Hong Kong, China);
 1868, JANSP (2) 6: 325, pl. 53, fig. 138; 1869, Obs. 12:
 85. Known only from the figured holotype MCZ 175567 from
 J. G. Anthony.

- <u>cincinnatiensis</u> Lea, <u>Unio</u>: 1840, PAPS <u>1</u>: 285 (Ohio River,

 Cincinnati [Hamilton Co., Ohio]); 1842, TAPS <u>8</u>: 194, pl. 8,

 fig. 4; 1842, Obs. 3: 32. Figured holotype USNM 84199.
- cinnamcmicus Lea, Unio: 1861, PANSP 13: 39 (Tombigbee River,
 Columbus, [Lowndes Co.], Mississippi); 1862, Obs. 8: 104.
 Figured holotype USNM 85317.
- circulus Lea, Unio: 1829, TAPS 3: 433, p1. 9, fig. 14 (Ohio
 [River], Cincinnati, [Ohio]; Monongahela [River],
 Pittsburg, [Pennsylvania]; Tennessee [River], Nashville,
 [Tennessee[); 1834, Obs. 1: 47. Figured type not in the
 USNM [lost]; syntype ANSP 56602 mentioned as in the ANSP.
- <u>circumactus</u> Lea, <u>Unio</u>: 1871, PANSP <u>23</u>: 192 ([Tennessee River] Florence, [Lauderdale Co.], Alabama; Holston River [Tennessee]); 1874, JANSP (2) 8: <u>14</u>, pl. 4, fig. 11: 1874, Obs. <u>13</u>: 19. Figured holotype USNM 85830 from the latter locality.

- <u>cirratus</u> Lea, <u>Unio</u>: 1874, PANSP for 1873, <u>25</u>: 422 (Abbeville District, [Savannah River drainage] South Carolina); 1874, JANSP (2) <u>8</u>: 55, pl. 19, fig. 53; 1874, Obs. <u>13</u>: 59. Figured holotype USNM 85584.
- <u>cistellaeformis</u> Lea, <u>Unio</u>: 1863, PANSP <u>15</u>: 193 (Neuse River near [6 mi E] Raleigh [Wake Co.], North Carolina); 1866, JANSP (2) <u>6</u>: 19, pl. 5, fig. 17; 1867, Obs. <u>11</u>: 23. Figured holotype USNM 85533.
- claibornensis Lea, Unio: 1838, TAPS 6: 105, pl. 24, fig. 115
 (Alabama River, Claiborne [Monroe Co., Alabama]); 1838,
 Obs. 2: 105. Figured holotype USNM 85020.
- clarkianus Lea, Unio: 1852, TAPS 10: 273, p1. 21, fig. 30
 ([Duck River] Williamsport [Maury Co.], Tennessee;
 Georgia or Alabama, Wheatley); 1852, Obs. 5: 29. Figured
 type not in the USNM [lost]; syntype ANSP 126052 from the
 latter locality, mentioned as in the Wheatley colln.
- clinchensis Lea, Unio: 1867, PANSP 19: 81 (Clinch River;
 French Broad River; both Tennessee); 1868, JANSP (2)
 6: 278, pl. 37, fig. 91; 1869, Obs. 12: 38. Figured holotype USNM 84596 from the former locality.

- coccineus Lea, <u>Unio</u>: 1838, TAPS <u>6</u>: 12, pl. 5, fig. 12 (Ohio River, near Marietta [Washington Co.]; Mahoning River; [Scioto River], near Columbus [Franklin Co.]; <u>all</u> Ohio); 1838, Obs. <u>2</u>: 12. Figured type from the first locality [lost]. <u>Non</u> Conrad 1836. Is <u>Quadrula catilla</u> Conrad, <u>teste</u> Frierson, 1927, Check List Naiades N. America, p. 54.
- coelestis Lea, <u>Iridina</u>: 1838, TAPS <u>6</u>: 82, pl. 22, fig. 70

 (Africa); 1838, Obs. <u>2</u>: 82. Type lost. Listed as in

 Lea and Jay collns. but not found in the USNM or AMNH.
- cognatus Lea, Unio: 1860, PANSP 12: 306 (Rio Salado, New
 [Nuevo] Leon [State], Mexico); 1860, JANSP (2) 4: 368,
 p1. 65, fig. 193; 1860, Obs. 8: 50. Known only from the
 figured holotype USNM 85004 which consists of a single
 left valve.
- coloradoensis Lea, Unio: 1856, PANSP 8: 103 (Rio Colorado,
 Texas); 1857, JANSP (2) 3: 314, pl. 31, fig. 29; 1857,
 Obs. 6: 34. Figured holotype USNM 84845.
- columbensis Lea, Margaritana: 1867, PANSP 19: 81 (Tombigbee River, near Columbus [Lowndes Co.], Mississippi). Type not in the USNM [lost].

- <u>columbensis</u> Lea, <u>Unio</u>: 1857, PANSP <u>9</u>: 31 (creeks near Columbus [Muscogee Co.], Georgia); 1858, JANSP (2) <u>4</u>: 75, pl. 14, fig. 55; 1858, Obs. <u>6</u>: 75. Figured holotype USNM 85360.
 - <u>Columbia</u> Lea, Genus: 1834, TAPS <u>5</u>:78, Type species: <u>Anodonta</u>

 <u>blainvilliana</u> Lea, by monotypy. Non <u>Columbia</u>

 <u>Linnaeus</u> (Aves) 1758. 1834, Obs. <u>1</u>: 190.
- compactus Lea, <u>Unio</u>: 1859, PANSP <u>11</u>: 154 (Etowah and Connasuga Rivers; <u>both</u> Georgia); 1859, JANSP (2) <u>4</u>: 218, p1. 28, fig. 98; 1859, Obs. <u>7</u>: 36. Figured holotype USNM 84447 from the former locality.
- compressa Lea, Monocondylaea: 1863, PANSP 15: 190 (Siam);
 1866, JANSP (2) 6: 30, pl. 11, fig. 29; 1867, Obs. 11:
 34. Figured holotype USNM 86340.
- compressa Lea, Symphynota: 1829, TAPS 3: 450, p1. 12, fig. 22
 ([Yellow Creek, near Cincinnati, Hamilton Co.,] Ohio;
 Norman's Kill, near Albany [Albany Co., New York]); 1834,
 Obs. 1: 64. Figured holotype USNM 83961 from the former
 locality.
- compressissimus Lea, Unio: 1845, PAPS 4: 163 (Holston River,
 Tennessee); 1848, TAPS 10: 81, pl. 8, fig. 23; 1848, Obs.
 4: 55. Figured holotype USNM 84474.

- conasaugaensis Lea, <u>Unio</u>: 1872, PANSP <u>24</u>: 155 (Conasauga Creek, Monroe Co., East Tennessee); 1874, JANSP (2) <u>8</u>: 32, pl. 10, fig. 30; 1874, Obs. <u>13</u>: 37. Known only from the figured holotype USNM 85565.
- concavus Lea, Unio: 1852, TAPS 10: 260, pl. 15, fig. 11 (Abbeville
 District [Savannah River drainage], South Carolina); 1852,
 Obs. 5: 16. Figured holotype USNM 85154.
- concestator Lea, Unio: 1857, PANSP 9: 31 (creeks near Columbus
 [Muscogee Co.], Georgia); 1858, JANSP (2) 4: 66, p1. 12,
 fig. 48; 1858, Obs. 6: 66. Figured holotype USNM 85102.
- concolor Lea, Unio: 1861, PANSP 13: 40 (Big Prairie Creek
 [Hale Co.], Alabama); 1861, JANSP (2) 5: 89, pl. 12, fig.
 237; 1862, Obs. 8: 93. Figured holotype USNM 85319.
- confertus Lea, Unio: 1834, TAPS 5: 103, pl. 16, fig. 47 (Santee
 Canal, South Carolina, Ravenel); 1834, Obs. 1: 215. Type
 [lost]; subsequently identified topotype USNM 85634.
 - congaraeus Lea, Unio: 1831, TAPS 4: 72, p1. 6, fig. 4 (Congaree
 River, South Carolina); 1834, Obs., 1: 82. Figured
 holotype USNM 85693.

- connasaugaensis Lea, Margaritana: 1858, PANSP 10: 135

 (Connasauga River, one of the headwaters of the Alabama
 River, Gilmer Co., Georgia; Tennessee); 1859, JANSP
 (2) 4: 229, pl. 32, fig. 113; 1859, Obs. 7: 47. Figured holotype USNM 86277 from the former locality.
- conradicus Lea, Unio: 1834, TAPS 5: 63, pl. 9, fig. 23 (no
 locality [Caney Fork, of the Cumberland River,

Tennessee]; 1834, Obs. 1: 175. Figured holotype USNM 84134.

- consanguineus Lea, <u>Unio</u>: 1861, PANSP <u>13</u>: 60 (Etowah River;

 Oostenaula River; <u>both</u> Georgia, Cahawba River, Alabama);

 1861, JANSP (2) <u>5</u>: 5, p. 67, pl. 7, fig. 217; 1862, Obs.

 <u>8</u>: 71. Figured holotype USNM 84726 from the third
- consobrinus Lea, Unio: 1859, PANSP 11: 331 (China); 1860,
 JANSP (2) 4: 272, pl. 45, fig. 152; 1860, Obs. 7: 90.
 Figured holotype USNM 85178.

locality.

conspicuus Lea, Unio: 1872, PANSP 24: 156 (Yadkin River, Salisbury [Rowan Co.], North Carolina); 1874, JANSP (2) 8: 34, pl. 11, fig. 31; 1874, Obs. 13: 38. Figured holotype USNM 85056.

- contiguus Lea, Unio: 1861, PANSP 13: 392 (Stewarts Mill Dam,
 Union Co.], North Carolina); 1862, JANSP (2) 5: 199, pl.
 28, fig. 268; 1863, Obs. 9: 21. Known only from the
 figured holotype USNM 85120.
- contorta Lea, <u>Triquetra</u>: 1857, PANSP <u>8</u>: 300. Unnecessary substitution for <u>lanceolata</u> Lea, <u>Triquetra</u>, under which see.
- contractus Lea, Unio: 1857, PANSP 9: 86 (Roanoke River,
 Wheldon [Halifax Co.], North Carolina); 1862, JANSP (2)
 5: 203, pl. 29, fig. 272; 1863, Obs. 9: 25. Figured
 holotype USNM 86102.
- <u>contradens</u> Lea, <u>Unio</u>: 1838, TAPS <u>6</u>: 75, pl. 18, fig. 58 (no locality [Java]); 1838, Obs. <u>2</u>: 75. Figured holotype USNM 85185.
- <u>cooperianus</u> Lea, <u>Unio</u>: 1834, TAPS <u>5</u>: 61, pl. 8, fig. 21 (Ohio River; T. G. Lea); 1834, Obs. <u>1</u>: 173. Type [lost].
- <u>copei</u> Lea, <u>Unio</u>: 1868, PANSP <u>20</u>: 144 (Headwaters of North branch of Holston River, Smyth Co., Virginia); 1868, JANSP (2)
 <u>6</u>: 307, pl. 47, fig. 120; 1869, Obs. <u>12</u>: 67. Figured holotype USNM 85137.

- corneus Lea, Unio: 1874, PANSP for 1873, 25: 423 ([Chattahoochee River] Columbus [Muscogee Co.]; Marietta [Cobb Co.]; both Georgia; Abbeville District [Savannah River drainage], South Carolina); 1874, JANSP (2) 8: 59, pl. 20, fig. 58; 1874, Obs. 13: 63. Figured holotype USNM 85580 from the first locality.
- corpulentoides Lea, Anodonta: 1868, PANSP 20: 164 ([Fish-house], 6 mi. NE Camden, [Camden Co.], New Jersey; Pleistocene, teste Pilsbry, 1896, PANSP 48: 567-570). Measured holotype ANSP 31525. Specimen figured by Whitfield, 1885, Brach. and Lamell. Raritan Clays and Greensand Marls of N. J., p. 252, pl. 35, fig. 1. Is Anodonta grandis Say.
- <u>corrianus</u> Lea, <u>Unio</u>: 1834, TAPS <u>5</u>: 65, pl. 9, fig. 25 (India); 1834, Obs. <u>1</u>: 177. Figured holotype USNM 86056.
- corvinus Lea, Unio: 1868, PANSP 20: 144 (Flint River, Georgia;
 Darien?[sic] [McIntosh Co., Georgia]; Neuse River,
 Raleigh [Wake Co.], North Carolina); 1868, JANSP (2) 6:
 310, pl. 48, fig. 123; 1869, Obs. 12: 70. Figured holotype USNM 85277 from the first locality.
- <u>corvunculus</u> Lea, <u>Unio</u>: 1868, PANSP <u>20</u>: 144 (Swamp Creek, Whitfield Co., Georgia); 1868, JANSP (2) <u>6</u>: 314, pl. 50, fig. 127; 1869, Obs. <u>12</u>: 74. Figured holotype USIM 85293.

- corvus Lea, Unio: 1859, PANSP 11: 112 (Buckhead Creek, Burke
 Co.; Ogeechee River; both Georgia); 1859, JANSP (2) 4:
 217, pl. 27, fig. 97; 1859, Obs. 7: 35. Figured holotype
 USNM 84539 from the former locality.
- couchianus Lea, Unio: 1860, PANSP 12: 305 (Rio Salado, New
 [Nuevo] Leon [State], Mexico); 1860, JANSP (2) 4: 371,
 pl. 66, fig. 196; 1860, Obs. 8: 53. Figured holotype
 USNM 85728.
- cowperiana Lea, Anodonta: 1840, PAPS 1: 289 ([Altamaha River]
 Hopeton, near Darien [McIntosh Co.], Georgia). Changed to:
- <u>couperiana</u> Lea, <u>Anodonta</u>: 1842, TAPS <u>8</u>: 227, pl. 20, fig.
 46; 1842, Obs. <u>3</u>: 65. Figured type [lost]. Lectotype
 USNM 86673, selected by Johnson 1965, Breviora, Mus. Comp.
 Zool. no. 213, p. 3, pl. 2, fig. 4.
 - <u>crapulus</u> Lea, <u>Unio</u>: 1861, PANSP <u>13</u>: 39 (Etowah River, Georgia); 1866, JANSP (2) <u>6</u>: 42, pl. 15, fig. 40; 1867, Obs. <u>11</u>: 46. Figured holotype USNM 84821.
 - <u>crebrivittatus</u> Lea, <u>Unio</u>: 1861, PANSP <u>13</u>: 60 (Cossawattee River, Alabama); 1866, JANSP (2) <u>6</u>: 43, pl. 15, fig. 41; 1867, Obs. <u>11</u>: **47**. Figured holotype USNM 84725.

- Crepera Lea, Anodonta: 1850, Proc. Zool. Soc. London, p. 198

 (Bongabon, Luzon, Philippine Islands; Cuming); 1860,

 JANSP (2) 4: 238, pl. 34, fig. 117; 1860, Obs. 7: 56.

 Figured type not in the BMNH [lost]; syntypes BMNH 1965158 and USNM 86602.
 - creperus Lea, <u>Unio</u>: 1838, TAPS <u>6</u>: 33, pl. 10, fig. 28 (Tennessee);

 1838, Obs. <u>2</u>: 33. Figured holotype USNM 85264 consists of the left valve only.
- <u>crocatus</u> Lea, <u>Unio</u>: 1841, PAPS <u>2</u>: 31 (Savannah River, Georgia); 1842, TAPS <u>8</u>: 238, pl. 22, fig. 52; 1842, Obs. <u>3</u>: 76. Figured holotype USNM 84908.
- cromwellii Lea, Unio: 1865, PANSP 17: 89 (Kiokee Creek,
 near Albany, Dougherty Co., Georgia); 1868, JANSP (2)
 6: 258, pl. 31, fig. 73; 1869, Obs. 12: 18. Figured
 holotype USNM 85280.
- crudus Lea, Unio: 1871, PANSP 23: 190 (French Broad River [Tennessee]; Swamp Creek, Murray Co., Georgia; Holston River [Tennessee]); 1874, JANSP (2) 8: 17, pl. 4, fig. 10; 1874, Obs. 13: 18. Figured holotype USWM 85841 from the first locality.

- cucumoides Lea, Unio: 1840, PAPS 1: 285 (Hunters River, New South Wales, Australia; Jay); 1842, TAPS 8: 192, pl. 7, fig. 2; 1842, Obs. 3: 30. Figured holotype AFNH 30897, refigured by McMichael and Hiscock, 1958 Australian Jour. Marine and F. W. Res. 9: 474, pl. 14, figs. 3-4.
- cumberlandicus Lea, Unio: 1838, Obs. 2: 25, pl. 7, fig. 19
 (Cumberland River, Tennessee); 1838, Obs. 2: 25. Figured
 holotype USNM 85254.
- cumingii Lea, Anodonta: 1850, Proc. Zool. London, p. 199
 (Malacca). Changed to:
- <u>cumingii</u> Lea, <u>Monocondylaea</u>: 1860, JANSP (2) <u>4</u>: 235, pl. 33, fig. 114; 1860, Obs. <u>7</u>: 53. Figured holotype USNM 86350.
- cumingii Lea, Unio: 1852, PANSP 6: 54 (Northern part of China);
 1860, JANSP (2) 4: 240, pl. 35, fig. 150; 1860, Obs. 7:
 58. Figured holotype USNM 83897.
- <u>cuneolus</u> Lea, <u>Unio</u>: 1840, PAPS <u>1</u>: 286 (Holston River, Tennessee); 1842, TAPS <u>8</u>: 193, pl. 7, fig. 3; 1842, Obs. <u>3</u>: 31. Figured holotype USNM 84591.
- <u>cuprinus</u> Lea, <u>Unio</u>: 1831, TAPS <u>4</u>: 94, pl. 12, fig. 24 (Mexico); 1834, Obs. <u>1</u>: 104. Figured holotype USNM 86121.

- curatus Lea, Unio: 1863, PANSP 15: 193 (Sugar Creek [Mecklen-burg Co.], North Carolina); 1866, JANSP (2) 6: 23, pl.
 7, fig. 21; 1867, Obs. 11: 27. Known only from the figured type in the Wheatley colln. in the ANSP [lost]; there is a larger specimen under this name in the Wheatley colln. ANSP 127200.
 - curreyiana Lea, <u>Unio</u>: 1840, PAPS <u>1</u>: 288 (Stone's River, Tennessee); 1842, TAPS <u>8</u>: 223, pl. 18, fig. 40; 1842, Obs. <u>3</u>:
 61. Known only from the figured holotype USNM 86227.

 - curvatus Lea, Unio: 1872, PANSP 24: 159 (Pfeiffers Pond, Mecklenburg Co., North Carolina); 1874, JANSP (2) 8: 47, pl.
 13, fig. 35; 1874, Obs. 13: 42. Figured holotype USNM
 85550.
 - cuspidatus Lea, Unio: 1872, PANSP 24: 159 (Buckhead Creek,
 Burke Co., Georgia; Abbeville District [Savannah River
 drainage], South Carolina); 1874, JANSP (2) 8: 43, pl.
 14, fig. 40; 1874, Obs. 13: 47. Figured holotype USNM
 86014 from the former locality.

- cuvierianus Lea, Unio: 1852, TAPS 10: 263, pl. 16, fig. 16
 (Washington Co., Georgia); 1852, Obs. 5: 19. Known
 only from the figured holotype USNM 85401.
- cylindracea Lea, Anodonta: 1838, TAPS 6: 45, pl. 13, fig. 40

 (River Medellin, near Vera Cruz [Vera Cruz State], Mexico;

 Burrough); 1838, Obs. 2: 45. Figured type and mentioned

 syntype not in the USNM or ANSP [lost]; specimen identified

 by Lea USNM 86712.
 - cylindrellus Lea, Unio: 1868, PANSP 20: 144 (Duck Creek, Tennessee; Swamp Creek, Whitfield Co., Georgia; North Alabama); 1868, JANSP (2) 6: 308, pl. 48, fig. 121; 1869, Obs. 12: 68. Figured holotype USNM 85300 from the third locality.
 - dactylus Lea, Unio: 1840, PAPS 1: 287 (Caney Fork [of the
 Cumberland River], Tennessee); 1842, TAPS 8: 196, p1. 9,
 fig. 7; 1842, Obs. 3: 34. Known only from the figured
 holotype USNM 85904.
- dahomeyensis Lea, Anodonta: 1859, PANSP 11: 154 (Dahomey,

 W Africa, Cuming); 1860, JANSP (2) 4: 261, pl. 41, fig.
 141; 1860, Obs. 7: 79. Known only from the figured
 holotype BMNH 1965193.

- dallasiana Lea, Anodonta: 1863, PANSP 15: 190 (Lake Winnipeg, at the mouth of the Saskatchewan River [Manitoba, Canada]); 1866, JANSP (2) 6: 29, pl. 11, fig. 28; 1867, Obs. 11: 33. Figured holotype USNM 86443.
- damascensis Lea, Unio: 1863, PANSP 15: 190 (River Barada,

 Damascus [Iraq]; Wheatley); 1866, JANSP (2) 6: 55, pl. 18,

 fig. 52; 1867, Obs. 11: 59. Figured holotype ANSP 125733

 mentioned as in the Wheatley colln.; paratype USNM 85542.
- danielsii Lea, Anodonta: 1858, PANSP 10: 139([Kansas River],
 Topeka [Shawnee Co.], Kansas); 1860, JANSP (2) 4: 365,
 pl. 63, fig. 190; 1860, Obs. 8: 47. Known only from the
 figured holotype USNM 86426.
- dariensis Lea, Anodonta: 1858, PANSP 10: 139 ([Altamaha River]
 Hopeton, near Darien [McIntosh Co.]; Swift Creek, near
 Macon [Bibb Co.]; Flint River: all Georgia); 1859, JANSP
 (2) 4: 230, pl. 28, fig. 99; 1859, Obs. 7: 48. Figured
 holotype USNM 86600 from the second locality.
 - dariensis Lea, Unio: 1842, TAPS 8: 246, pl. 26, fig. 61

 ([Altamaha River], near Darien, [McIntosh Co.], Georgia);

 1842, Obs. 3: 84. Known only from the figured holotype

 USNM 85691.

- datus Lea, Unio: 1868, PANSP 20: 161 (Paw Creek [Mecklenburg Co.]; Beaver Co. [=Creek, Gaston Co.]; Long Creek [Gaston Co.]; all North Carolina); 1868, JANSP (2) 6: 299, pl. 44, fig. 11; 1869, Obs. 12: 59. Figured holotype USNM 85097 labeled, Paw Creek, Beaver Co., North Carolina.
- <u>decisus</u> Lea, <u>Unio</u>: 1831, TAPS <u>4</u>: 92, pl. 12, fig. 23 (Alabama River; 1834, Obs. <u>1</u>: 102. Figured holotype USNM 84723.
- decora Lea, Anodonta: 1838, TAPS 6: 64, pl. 20, fig. 63

 ([Miami and Erie] Canal near Cincinnati [Hamilton Co];

 [Ohio and Erie] Canal near Chilicothe [Ross Co.]; both

 Ohio); 1838, Obs. 2: 64. Figured holotype USNM 86633

 from the former locality.
 - decoratus Lea, Unio: 1852, TAPS 10: 257, p. 13, fig. 6 (Abbeville
 District [Savannah River drainage], South Carolina); 1852,
 Obs. 5: 13. Figured holotype USNM 83972.
- <u>decumbens</u> Lea, <u>Unio</u>: 1861, PANSP <u>13</u>: 40 (Alabama); 1861, JANSP (2) <u>5</u>: 87, pl. 12, fig. 236; 1862, Obs. <u>8</u>: 91. Known only from the figured holotype USNM 86150.

- <u>delphinus</u> Lea, <u>Unio</u>: 1842, TAPS <u>8</u>: 218, pl. 15, fig. 35 (New Holland [Australia] ?); 1842, Obs. <u>3</u>: 56. Figured holotype USNM 83910.
 - deltoidea Lea, Margaritana: 1838, TAPS <u>6</u>: 43, pl. 13, fig. 38

 (Ohio River near Cincinnati [Hamilton Co.]; Scioto River,

 <u>both</u> Ohio); 1838, Obs. <u>2</u>: 43. Figured holotype USNM 86215

 from the latter locality.
 - demeraraensis Lea, Unio: 1859, PANSP 11: 152 (Demerara, British
 Guiana; Cuming); 1860, JANSP (2) 4: 253, p. 39, fig. 133;
 1860, Obs. 7: 71. Known only from the figured type. Not
 in the BMNH or USNM [lost].
 - denigrata Lea, Anodonta: 1852, TAPS 10: 285, pl. 25, fig. 45
 (Campbell Co., East Tennessee); 1852, Obs. 5: 41.
 Figured holotype USNM 86535.
 - denigratus Lea, Unio: 1857, PANSP 9: 171 (streams near
 Columbus [Muscogee Co.], Georgia); 1859, JANSP (2) 4:
 200, pl. 23, fig. 83; 1859, Obs. 7: 18. Figured holotype
 USNM 85568.
 - differtus Lea, Unio: 1872, PANSP 24: 158 ([Savannah River]

 Georgia?); 1874, JANSP (2) 8: 42, pl. 14, fig. 39; 1874,

 Obs. 13: 46. Figured holotype USNM 85399.

- difficilis Lea, Unio: 1868, PANSP 20: 144 (Swamp Creek, Whitfield Co., Georgia; head waters of the Holston [River], Washington Co., Virgnnia); 1868, JANSP (2) 6: 311, pl. 49, fig. 124; 1869, Obs. 12: 71. Figured holotype USNM 85158 from the former locality.
- <u>dignatus</u> Lea, <u>Unio</u>: 1863, PANSP <u>15</u>: 189 (River Tigris, Bagdad [Iraq]); 1866, JANSP (2) <u>6</u>: 51, pl. 17, fig. 48; 1867, Obs. <u>11</u>: 55. Figured holotype USNM 84714.
- <u>diminutus</u> Lea, <u>Unio</u>: 1859, PANSP <u>11</u>: 151 (East Africa; Cuming); 1860, JANSP (2) <u>4</u>: 254, pl. 39, fig. 134; 1860, Obs. <u>7</u>: 72. Figured holotype BMNH 1965165.
 - dimotus Lea, Margaron: 1870, Synopsis Unionidae, 4th edit.,
 p. 30. New name for Unio sumatrensis Lea, 1859 non Dunker
 1852.
- diomotus Lea, Unio: see under sumatrensis Lea, Unio.
- discoidea Lea, Symphynota: 1834, TAPS 5: 73, pl. 11, fig. 33
 (China); 1834, Obs. 1: 187. Figured holotype USNM 86358
 Burrough colln., not returned to the ANSP; specimens under
 this name ANSP 56521.
- <u>discrepans</u> Lea, <u>Unio</u>: 1860, PANSP <u>12</u>: 92 (North Alabama); 1860, JANSP (2) <u>4</u>: 340, pl. 55, fig. 165; 1860, Obs. <u>8</u>: 22. Figured holotype USNM 85267.

- disculus Lea, Unio: 1860, PANSP 12: 91 (Uruguay River [Argentina and Uruguay]); 1863, JANSP (2) 5: 385, pl. 44, fig. 293; 1863, Obs. 10: 21. Known only from the figured holotype USNM 85775.
- <u>discus</u> Lea, <u>Unio</u>: 1838, TAPS <u>6</u>:74, pl. 18, fig. 57 (India, probably a Mexican shell, <u>teste</u> Marshall); 1838, Obs. <u>2</u>: 74. Figured holotype USNM 85341.
- <u>dispansus</u> Lea, <u>Unio</u>: 1871, PANSP <u>23</u>: 191 (East Tennessee); 1874, JANSP (2) <u>8</u>: 19, pl. 6, fig. 16; 1874, Obs. <u>13</u>: 23. Figured holotype USNM 85094.
- dispar Lea, Unio: 1860, PANSP 12: 305 ([Chattahoochee River]
 Columbus [Muscogee Co.], Georgia); 1860, JANSP (2) 4:
 327, pl. 51, fig. 153; 1860, Obs. 8: 9. Figured holotype
 USNM 85101.
- dissimilis Lea, Unio: 1872, PANSP 24: 161 (Long Creek, Gaston Co.; Pfeiffers Pond, Mecklenburg Co.: both North Carolina);

 1874, JANSP (2) 8: 53, pl. 18, fig. 52; 1874, Obs. 13: 57.

 Figured holotype USNM 86019 from the former locality.
 - divaricatus Lea, <u>Unio</u>: 1834, TAPS <u>5</u>: 64, pl. 9, fig. 24

 (Egypt [South America]); 1834, Obs. <u>1</u>: 176. Figured holotype USNM 85332.

- dolabelloides Lea, <u>Unio</u>: 1840, PAPS <u>1</u>: 288 (Holston River, Tennessee); 1842, TAPS <u>8</u>: 215, pl. 15, fig. 31; 1842, Obs. <u>3</u>: 53. Known only from the figured holotype USNM 85828.
- dolabraeformis Lea, Unio: 1838, TAPS 6: 103, pl. 24, fig. 113
 (Altamaha River, Liberty [now Long] Co.; Altamaha River,
 near Darien [McIntosh Co.]; both Georgia); 1838, Obs. 2:
 103. Figured holotype USNM 84888.
- dolearis Lea, Anodonta: 1863, PANSP 15: 193 (Stewarts Mill Dam,
 Union Co., North Carolina, Wheatley). Changed to:
- <u>doliaris</u> Lea, <u>Anodonta:</u> 1866, JANSP (2) <u>6</u>: 24, pl. 8, fig. 23; 1867, Obs. <u>11</u>: 28. Figured holotype ANSP 126522a in the Wheatley colln.
 - <u>doliaris</u> Lea, <u>Unio</u>: 1865, PANSP <u>17</u>: 88 (Etowah River, Georgia); 1868, JANSP (2) <u>6</u>: 260, pl. 32, fig. 75; 1869, Obs. <u>12</u>: 20. Known only from the figured holotype USNM 84936.
- <u>dolosus Lea, Unio</u>: 1860, PANSP <u>12</u>: 307 (Alabama River, Claiborne [Monroe Co.]; Coosa River; <u>both</u> Alabama); 1861, JANSP (2) <u>5</u>: 75, pl. 9, fig. 224; 1862, Obs. <u>8</u>: 79. Figured holotype USNM 86119 from the former locality.

- <u>donaciformis</u> Lea, <u>Unio</u>: 1828, TAPS <u>3</u>: 267, pl. 4, fig. 3; 1834, Obs. <u>1</u>: 9. Figured holotype USNM 84457.
- dooleyensis Lea, Unio: 1874, PANSP for 1873, 25: 424 ([Flint
 River], Dooley Co., Georgia; Abbeville,[Savannah River
 drainage] Abbeville Co., South Carolina); 1874, JANSP (2)
 8: 64, pl. 22, fig. 60; 1874, Obs. 13: 68. Figured holotype USNM 85538 from the former locality.
- dorfeuillianus Lea, Unio: 1838, TAPS 6: 73, pl. 17, fig. 54

 (Ohio River; Dorfeuille); 1838, Obs. 2: 73. Known only
 from the figured holotype USNM 84215 labeled, "Wabash River,
 Indiana, Dorfeuille."
 - dorsatus Lea, Unio: 1868, PANSP 20: 160 (Catawba River,
 North Carolina); 1868, JANSP (2) 6: 300, pl. 45, fig. 112;
 1869, Obs. 12: 60. Figured holotype USNM 84494.
 - downiei Lea, Unio: 1858, PANSP 10: 166 (Buck Lake, a bayou of
 the Satilla River, Wayne [Brantly] Co., Georgia); 1859,
 JANSP (2) 4: 210, pl. 25, fig. 91, 1859, Obs. 7: 28. Figured
 holotype USNM 84854.
 - dromus Lea, Unio: 1834, TAPS 5: 70, pl. 10, fig. 29; 1834,

 Obs. 1: 182 (Harpteh River; Cumberland River, near

 Nashville [Davidson Co.]; both Tennessee). Figured

 holotype USNM 25852 from the former locality.

- dunkerianus Lea, Unio: 1856, PANSP 8: 94 (Rio Macacou, Rio
 de Janeiro [Brazil]; New Granada [Colombia]); 1857,

 JANSP (2) 3: 303, pl. 28, fig. 20; 1857, Obs. 6: 25.

 Figured holotype USNM 84155.
- dunlapiana Lea, Anodonta: 1842, TAPS 8: 248, pl. 27, fig. 65

 (South Carolina); 1842, Obs. 3: 86. Figured type not in the USNM [lost]. Lectotype USNM 86564 selected by Johnson, 1970, Bull. Mus. Comp. Zool. 140: 365, pl. 17, fig. 1, from Charleston, Chatham Co., South Carolina.
- duttonianus Lea, <u>Unio</u>: 1841, PAPS <u>2</u>: 31 (Ogeechee Canal, Savannah [Chatham Co.], Georgia; Dutton); 1842, TAPS <u>8</u>: 236, pl. 22, fig. 50; 1842, Obs. <u>3</u>: 74. Known only from the figured type, in the T. R. Dutton colln. [lost].
- <u>dysonii</u> Lea, <u>Unio</u>: 1859, PANSP <u>11</u>: 152 (Honduras; Cuming); 1860, JANSP (2) <u>4</u>: 252, p. 39, fig. 132; 1860, Obs. <u>7</u>: 70. Known only from the figured holotype BMNH 1965173.
 - <u>ebenus</u> Lea, <u>Unio</u>: 1831, TAPS <u>4</u>: 84, pl. 9, fig. 14 (Ohio); 1834, Obs. <u>1</u>: 94. Figured holotype USNM 85792.
- edgarianus Lea, <u>Unio</u>: 1840, PAFS <u>1</u>: 288 (Holston River, Tennessee; Tennessee River, Florence [Lauderdale Co.], Alabama); 1842, TAPS <u>8</u>: 214, pl. 15, fig. 20; 1842, Obs. <u>3</u>: 52. Figured holotype USNM 8 4 685 from the former locality.

- effulgens Lea, Unio: 1856, PANSP 8: 94 (Brazil); 1857, JANSP (2) 3: 303, pl. 28, fig. 18; 1857, Obs. 6: 23. Known only from the figured holotype USNM 84406.
- eightsii Lea, Unio: 1860, PANSP 12: 306 ([Cebalo River], 28 mi E San Antonio, [Bexar Co.], Texas; Sabinas River, New [Nuevo] Leon[State] Mexico); 1860, JANSP (2) 4: 367, pl. 64, fig. 192; Obs. 8: 49. Figured holotype USNM 83991 from the latter locality.
 - elegans Lea, <u>Unio</u>: 1831, TAPS <u>4</u>: 83, pl. 9, fig. 13 (Ohio River) 1834, Obs. <u>1</u>: 93. Figured holotype USNM 84449.
- elliottii Lea, Margaritana: 1858, PANSP 10: 138 (Chattahoochee River [below Uchee Bar] near Columbus [Muscogee Co.], Georgia); 1859, JANSP (2) 4: 226, pl. 31, fig. 108; 1859, Obs. 7: 44. Figured holotype USNM 86257.
- elliottii Lea, <u>Unio</u>: 1856, PANSP <u>8</u>: 262 (Othcalooga [Oothkalooga]

 Creek, Gordon Co., Georgia); 1858, JANSP (2) <u>4</u>: 54, pl. 7

 fig. 37; 1858, Obs. <u>6</u>: 54. Figured holotype USNM 84019.
- ellipsis Lea, <u>Unio</u>: 1828, TAPS <u>3</u>: 268, pl. 4, fig. 4 (Ohio; T. G. Lea); 1834, Obs. <u>1</u>: 10. Type [lost]; syntypes ANSP 56614 mentioned as in the ANSP.

- elliptica Lea, Margaritana: 1859, PANSP 11: 113 (Tombigbee River, Columbus [Lowndes Co.], Mississippi); 1861, JANSP (2) 5: 106, pl. 18, fig. 254; 1862, Obs. 8: 110. Figured holotype USNM 86258.
- emarginatus Lea, Mycetopus: 1860, PANSP 12: 308 (Siam); 1863,
 JANSP (2) 5: 398, pl. 50, fig. 305; 1863, Obs. 10: 34.
 Known only from the figured holotype USNM 86787.
- emarginatus Lea, Unio: 1834, TAPS 5: 62, p1. 9, fig. 22 (no
 locality [circummediterranean region]); 1834, Obs. 1:
 174. Figured holotype USNM 86159, consists of almost
 matching, opposed valves.
- emesaensis Lea, <u>Unio</u>: 1866, PANSP <u>17</u>: 286 (Lake Homs, River Orontes, North Syria); 1868, JANSP (2) <u>6</u>: 254, pl. 30, fig. 68; 1869, Obs. <u>12</u>: 14. Figured holotype USNM 85856.
- emmonsii Lea, Unio: 1857, PANSP 9: 86, (Roanoke River, Weldon
 [Halifax Co.] North Carolina); 1861, JANSP (2) 5: 56, pl.
 2, fig. 203; 1862, Obs. 8: 60. Figured holotype USNM
 86028.
- encarpus Lea, <u>Unio</u>: 1868, PANSP <u>20</u>: 95 (Lake Nicaragua, Central America); 1868, JANSP (2) <u>6</u>: 294, pl. 42, fig. 105; 1869, Obs. <u>12</u>: 54. Figured holotype USNM 84386.

- errans Lea, <u>Unio</u>: 1856, PANSP <u>8</u>: 262 (Tobesaufke [Tobesofkee] Creek, near Macon [Bibb Co.], Georgia); 1858, JANSP (2) <u>4</u>: 60, pl. 9, fig. 42; 1858, Obs. <u>6</u>: 60. Figured holotype USNM 85541.
- estabrookianus Lea, <u>Unio</u>: 1845, PAPS <u>4</u>: 164 (Clinch River; Second Creek; <u>both Tennessee</u>); 1848, TAPS <u>10</u>: 77, pl. 6, fig. 17; 1848, Obs. <u>4</u>: 51. Figured holotype USNM 84389 from the former locality.
- etowahensis Lea, Margaritana: 1858, PANSP 10: 138 (Tennessee;
 Etowah River, Georgia); 1859, JANSP (2) 4: 227, pl. 31,
 fig. 110; 1859, Obs. 7: 45. Figured holotype USNM 86259.
 Non Conrad 1849. Changed by Lea, 1859, PANSP 11: 280 to
 Margaritana georgiana.
- exactus Lea, Unio: 1858, PANSP 10: 41 (Neuse River, 6 mi
 from [East] Raleigh [Wake Co.] North Carolina); 1861
 JANSP (2) 5: 62, p1. 4, fig. 210; 1862, Obs. 8: 66.
 Known only from the figured holotype USNM 85002.
- exacutus Lea, Unio: 1872, PANSP 24: 159 (Savannah River at
 Governor Hamilton's [Mansion, 8 mi. S of Hardeeville,
 Jasper Co., South Carolina] Georgia); 1874, JANSP (2)
 8: 45, pl. 15, fig. 43; 1874, Obs. 13: 49. Figured holotype USNM 85872.

- excavatus Lea, Unio: 1857, PANSP 9: 32 (Othcalooga [Oothkalooga]

 Creek, Gordon Co.; Etowah River; both Georgia; [Alabama

 River] Claiborne [Monroe Co.], Alabama); 1858, JANSP

 (2) 4: 71, pl. 13, fig. 52; 1858, Obs. 6: 71. Figured

 holotype USNM 84498 from the first locality.
- <u>exiguus Lea, Unio</u>: 1840, PAPS <u>1</u>: 287 (Chattahoochee River, near Columbus [Muscogee Co.], Georgia); 1842, TAPS <u>8</u>: 191, p1. 7, fig. 1; 1842, Obs. <u>3</u>: 29. Figured holotype USNM 84974.
- exilior Lea, Anodonta: 1871, PANSP 23: 188 (Mexico); 1874,

 JANSP (2) 8: 24, pl. 7, fig. 21; 1874, Obs. 13: 28.

 Figured holotype USNM 86730.
 - <u>exilis</u> Lea, <u>Anodonta</u>: 1838, TAPS <u>6</u>: 81, pl. 22, fig. 68 (Hab.? [Java]) 1838, Obs. <u>2</u>: 81. Figured holotype USNM 86726.
 - eximius Lea, Unic: 1856, PANSP 8: 93 (Siam); 1857, JANSP (2)
 3: 294, pl. 25, fig. 8; 1857, Obs. 6: 14. Figured
 holotype USNM 83900.
- extensus Lea, Unio: 1857, PANSP 9: 31 (Dry Creek, near Columbus
 [Muscogee Co.], Georgia); 1858, JANSP (2) 4: 67, pl. 12,
 fig. 49; 1858, Obs. 6: 67. Figured holotype USNM 85995.
- <u>evitatus</u> Lea, <u>Unio</u>: 1866, PANSP <u>18</u>: 133 (Bengal); 1868, JANSP (2) <u>6</u>: 279, pl. 38, fig. 92; 1869, Obs. <u>12</u>: 39. Figured holotype USNM 85191.

- <u>fabaceus</u> Lea, <u>Unio</u>: 1861, PANSP <u>13</u>: 38 (Oostanaula River, Georgia); 1861, JANSP (2) <u>5</u>: 90, pl. 13, fig. 238; 1862, 1862, Obs. <u>8</u>: 94. Known only from the figured holotype USNM 85165.
- <u>fabilis</u> Lea, <u>Unio</u>: 1831, TAPS <u>4</u>: 86, pl. 10, fig. 16 (Ohio River); 1834, Obs. 1: 96. Figured holotype USNM 85270a.
- fabula Lea, Margaritana: 1838, TAPS 6: 44, pl. 13, fig. 39
 (Cumberland River, Tennessee); 1838, Obs. 2: 44. Figured
 holotype USNM 86325.
- fallax Lea, Unio: 1857, PANSP 9: 32 (streams near Columbus [Muscogee Co.], Georgia; Elliott; French Broad River, Tennessee, Clark); 1858, JANSP (2) 4: 79, pl. 15, fig.59; 1858, Obs. 6: 79. Figured type not in the USNM [lost].
- fassinans Lea, Unio: 1868, PANSP 20: 143 (head waters of
 Holston River, Washington Co., Virginia); 1868, JANSP
 (2) 6: 305, pl. 47, fig. 118. 1869, Obs. 12: 65. Known
 only from the figured holotype USNM 84926.
- <u>fatuus</u> Lea, <u>Unio</u>: 1840, PAPS <u>1</u>: 287 (Holston River, Tennessee); 1842, TAPS <u>8</u>: 201, pl. 11, fig. 14; 1842, Obs. <u>3</u>: 39. Figured holotype USNM 86047.
- favosus Lea, <u>Unio</u>: 1856, PANSP <u>8</u>: 262 (Othcalooga [Oothkalooga]

 Creek, Gordon Co., Georgia); 1858, JANSP (2) <u>4</u>: 58, pl. 8,

 fig. 40; 1858, Obs. <u>6</u>: 58. Figured holotype USNM 84585.

- ferussaciana Lea, Anodonta: 1834, TAPS 5: 45, pl. 6, fig. 15

 (Ohio River, near Cincinnati [Hamilton Co.], Ohio); 1834,

 Obs. 1: 157. Figured holotype USNM 86520.
- ferussacianus Lea, <u>Unio</u>: 1868, JANSP (2) <u>6</u>: 266 [foot note]

 (Bagdad [Syria]); 1869, Obs. <u>12</u>: 15. Known only from the holotype USNM 85182.
- - fibuloides Lea, <u>Unio</u>: 1859, PANSP <u>11</u>: 154 (Connasauga River, Georgia); 1859, JANSP (2) <u>4</u>: 219, pl. 28, fig. 100; 1859, Obs. <u>7</u>: 37. Figured holotype USNM 85809.
 - <u>firmus</u> Lea, <u>Unio</u>: 1866, PANSP <u>18</u>: 33 (South America); 1868, JANSP (2) <u>6</u>: 267, pl. 34, fig. 82; 1869, Obs. <u>12</u>: 27. Figured holotype USNM 85113.
 - fisherianus Lea, <u>Unio</u>: 1838, TAPS <u>6</u>: 8, pl. 4, fig. 8 (Head of Chester River, Maryland); 1838, Obs. <u>2</u>: 8. Figured holotype USNM 86022.
 - <u>flavescens</u> Lea, <u>Unio</u>: 1845, PAPS <u>4</u>: 163 (Black Warrior River, Alabama); 1848, TAPS <u>10</u>: 72, pl. 3, fig. 9; 1848, Obs. <u>4</u>: 46. Figured holotype USNM 84952.

- flavidulus Lea, Unio: 1861, PANSP 13: 39 (stream [Tombigbee River, written in shell] near Columbus [Lowndes Co.], Mississippi); 1861, JANSP (2) 5: 97, pl. 15, fig. 245; 1862, Obs. 8: 101. Figured holotype USNM 84719.
- flavidus Lea, Unio: 1872, PANSP 24: 156 (Clinch River, Anderson Co., Tennessee; North Alabama); 1874, JANSP (2) 8: 28, pl. 9, fig. 25; 1874, Obs. 13: 32. Figured holotype USNM 84550 from the former locality.
- florentinus Lea, Unio: 1857, PANSP 9: 83 ([Tennessee River], Florence [Lauderdale Co.], Alabama; Cumberland River, Tennessee); 1861, JANSP (2) 5: 64, pl. 5, fig. 213; 1862, Obs. 8: 68. Figured holotype USNM 84948.
- floridensis Lea; Unio: 1852, TAPS 10: 274, pl. 21, fig. 31

 (Chácktaháchi River, West Florida; Le Conte; restricted by Clench and Turner, 1956, Bull. Florida State Mus. 1: 202 to Choctawhatchee River, 1 mi W Caryville, Holmes Co., Florida); 1852, Obs. 5: 30. Clench and Turner claimed that the figured holotype was in the USNM, but it is not; Lea returned the specimen to Le Conte. Figured holotype ANSP 42081

- fluctiger Lea, Unio: 1859, PANSP 11: 152 (Hab.?; Cuming;

 Southeast Asia, teste Simpson); 1860, JANSP (2) 4: 250,

 pl. 39, fig. 130; 1860, Obs. 7: 68. Known only from the figured holotype BMNH 1965169.
- folliculatus Lea, <u>Unio</u>: 1838, TAPS <u>6</u>: 38, pl. 11, fig. 33

 (Savannah River [Georgia]); 1838, Obs. <u>2</u>: 38. Figured holotype USNM 85861.
- footiana Lea, Anodonta: 1840, PAPS 1: 289 ([Lake Winnebago] vicinity of Fort Winnebago [Winnebago Co., Wisconsin]); 1842, TAPS 8: 225, pl. 20, fig. 44; 1842, Obs. 3: 63. Figured holotype USNM 86468 consists of a single right valve.
- forbesiana Lea, Anodonta: 1860, PANSP 12: 92 (Uruguay River, [Argentina and Uruguay]); 1863, JANSP (2) 5: 393, pl. 47, fig. 301; 1863, Obs. 10: 29. Figured holotype USNM 86694.
- <u>forbesianus</u> Lea, <u>Unio</u>: 1852, TAPS <u>10</u>: 264, pl. 16, fig. 17 (Savannah River [Georgia]); 1852, Obs. <u>5</u>: 20. Figured holotype USNM 84542.
- foremanianus Lea, <u>Unio</u>: 1842, TAPS <u>8</u>: 247, pl. 27, fig. 64

 (Coosa River, Alabama); 1842, Obs. <u>3</u>: 85. Figured holotype

 USNM 84439.

- formosus Lea, <u>Unio</u>: 1831, TAPS <u>4</u>: 111, pl. 16, fig. 41 (Ohio River; T. G. Lea); 1834, Obs. <u>1</u>, 121. Figured type not found in the USNM; syntypes mentioned as in the ANSP [lost].
- forsheyi Lea, Unio: 1859, PANSP 11: 155 ([Colorado River]

 Fayette Co., Texas; Alabama, [Texas], Anthony); 1860,

 JANSP (2) 4: 357, pl. 60, fig. 182; 1860, Obs. 8: 39.

 Figured holotype USNM 84169 labeled, "Texas, Anthony."
- fraternus Lea, <u>Unio</u>: 1852, TAPS <u>10</u>: 263, pl. 16, fig. 15 ([Chattahoochee River], Columbus [Muscogee Co.], Georgia; Abbeville District [Savannah River drainage], South Carolina); 1852, Obs. <u>5</u>: 19. Figured holotype USNM 85396 from the latter locality.
- fucatus Lea, Unio: 1860, PANSP 12: 92 (North Alabama; [Tennessee
 River], Tuscumbia, [Colbert Co., Alabama]); 1860, JANSP
 (2) 4: 354, pl. 59, fig. 178; 1860, Obs. 8: 35. Figured
 type not in the USNM [lost]. Specimen identified by Lea
 MCZ 178898 Cumberland River drainage, Murfreesboro,
 Rutherford Co., Tennessee.
- fulgidus Lea, <u>Unio</u>: 1845, PAPS <u>4</u>: 164 ([Red River] Alexandria [Rapides Parish], Louisiana); 1848, TAPS <u>10</u>: 73, pl. 4, fig. 10; 1848, Obs. <u>4</u>: 47. Figured holotype USNM **8**4649.

- fuliginosus Lea, <u>Unio</u>: 1845, PAPS <u>4</u>: 164 (Cobb's Creek, near Philadelphia, [Philadelphia Co. Pennsylvania]); 1848, TAPS <u>10</u>: 78, pl. 7, fig. 19; 1848, Obs. <u>4</u>: 52. Figured holotype USNM 85665.
- <u>fulvus</u> Lea, <u>Unio</u>: 1834, TAPS <u>5</u>: 96, pl. 13, fig. 39

 (South Carolina); 1834, Obs. <u>1</u>: 208. Figured holotype

 USNM 85679.
- fumatus Lea, Unio: 1857, PANSP 9: 171 (Chattahoochee River, near Columbus [Muscogee Co.], Georgia; Hospaliga Creek, Alabama [and] Georgia); 1858, JANSP (2) 4: 88, pl. 18, fig. 68; 1858, Obs. 6: 88. Figured holotype USNM 85552 from the former locality.
- funebralis Lea, Unio: 1860, PANSP 12: 91 (Uruguay River, [Argentina and Uruguay]); 1863, JANSP (2) 5: 378, pl. 41, fig.
 286; 1863, Obs. 10: 14. Figured holotype USNM 85777.
- <u>fuscatus</u> Lea, <u>Unio</u>: 1843, Desc. Twelve Uniones (Black Creek, Florida); 1846, TAPS <u>9</u>: 277, pl. 40, fig. 4; 1848, Obs. <u>4</u>: 35. Figured holotype USNM 85243.
- gabbianus Lea, <u>Unio</u>: 1868, PANSP <u>20</u>: 95 (Lake Nicaragua, Central America); 1868, JANSP (2) <u>6</u>: 295, pl. 43, fig. 106; 1869, Obs. <u>12</u>: 55. Figured holotype USNM 84387.

- gastonensis Lea, Unio: 1863, PANSP 15: 191 (Mine Creek, Gaston
 Co., North Carolina); 1866, JANSP (2) 6: 20, pl. 6, fig. 18;
 1867, Obs. 11: 24. Figured holotype USNM 85409.
- geddingsianus Lea, <u>Unio</u>: 1840, PAPS <u>1</u>: 285 (Congaree River, South Carolina); 1842, TAPS <u>8</u>: 202, pl. 11, fig. 15; 1842, Obs. <u>3</u>: 40. Figured holotype USNM 85650.
- geminus Lea, <u>Unio</u>: 1856, PANSP <u>8</u>: 262 (Buckhead Creek, Burke Co., Georgia); 1858, JANSP <u>4</u>: 63, pl. 10, fig. 45; 1858, Obs. <u>6</u>: 63. Figured holotype USNM 84856.
- genthii Lea, Unio: 1857, PANSP 9: 85 (Catawba River, Gaston
 Co.; Deep River, Gulf [Chatham Co.]; both North Carolina,
 restricted by Johnson, 1970, Bull. Mus. Comp. Zool. 140:
 378, to the latter locality); 1861, JANSP (2) 5: 57, pl.
 2, fig. 204; 1862, Obs. 8: 61. Figured holotype USNM 84834.
- geometricus Lea, Unio: 1834, TAPS 5: 38, pl. 4, fig. 10
 (Bayou Teche, [St. Landry Parish], Louisiana, Stewart);
 1834, Obs. 1: 150. Type [lost]; specimen USNM 85712,
 subsequently identified by Lea from Janin.

- georgiana Lea, Margaritana: 1859, PANSP 11: 280. New name for Margaritana etowahensis Lea 1858, non Conrad 1849.
- georgianus Lea, <u>Unio</u>: 1841, PAPS <u>2</u>: 31 (Stump Creek [not located] Georgia); 1842, TAPS <u>8</u>: 235, pl. 21, fig. 49; 1842, **0**bs.
 - $\underline{3}$: 73. Known only from the figured holotype USNM 84928.
- gerhardtii Lea, <u>Unio</u>: 1862, PANSP <u>14</u>: 168 ([Tennessee River] Chattanooga [James Co.], Georgia, [<u>sic</u>] [Tennessee]);
 1862, JANSP (2) <u>5</u>: 208, pl. 31, fig. 277; 1863, Obs. <u>9</u>:
 - 30. Known only from the figured holotype USNM 25711.
- germanus Lea, <u>Unio</u>: 1861, PANSP <u>13</u>: 40 (Coosa River, Alabama); 1866, JANSP (2) <u>6</u>: 49, pl. 19, fig. 54; 1867, Obs. <u>11</u>:
 - 53. Known only from the figured holotype USNM 85296.
- <u>gesnerii</u> Lea, <u>Anodonta</u>: 1858, PANSP <u>10</u>: 139 (Uphaupee Creek, Macon Co., Alabama); 1859, JANSP (2) <u>4</u>: 231, pl. 31, fig. 109; 1859, Obs. <u>7</u>: 49. Figured holotype USNM 86427.
- gesnerii Lea, Margaritana: 1858, PANSP 10: 138 (Uphaupee
 Creek, [Macon Co.], Alabama; Chattahoochee River below
 Columbia, [sic] [Columbus, Muscogee Co.], Georgia); 1862,
 JANSP (2) 5: 211, p1. 32, fig. 280; 1863, Obs. 9: 33.
 Figured holotype USNM 86212 from the former locality.

- gesnerii Lea, Unio: 1874, PANSP for 1873, 25: 424 (Uchee River
 [Russell Co., Alabama] near Columbus, Georgia); 1874,
 JANSP (2) 8: 65, pl. 22, fig. 64; 1874, Obs. 13: 69.
 Figured holotype USNM 85670.
- gibber Lea, Unio: 1838, TAPS 6: 35, pl. 10, fig. 30 (Caney
 Fork [of Cumberland River], Tennessee); 1838, Obs. 2: 35.
 Figured holotype USNM 84544.
- gibbesianus Lea, Unio: 1852, TAPS 10: 254, pl. 12, fig. 2
 (Abbeville District [Savannah River drainage], South
 Carolina); 1852, Obs. 5: 10. Known only from the figured holotype USNM 85685.
- gigantea Lea, Anodonta: 1838, TAPS 6: 1, pl. 1, fig. 1 ([Bayou
 Pierre] near Port Gibson [Claiborne Co., Mississippi]);
 1838, Obs. 2: 1. Figured holotype USNM 86659.
- <u>glaber</u> Lea, <u>Unio</u>: 1838, TAPS <u>6</u>: 34, pl. 10, fig. 29 (Holston River, Tennessee); 1838, Obs. <u>2</u>: 34. Figured holotype USNM 85266.
- glandaceus Lea, Unio: 1861, PANSP 13: 59 (Cahawba River, Alabama); 1861, JANSP (2) 5: 77, pl. 9, fig. 226; 1862, Obs. 8: 81. Figured holotype USNM 84577.
 - <u>glans</u> Lea, <u>Unio</u>: 1831, TAPS <u>4</u>: 82, pl. 8, fig. 12 (Ohio); 1834, Obs. <u>1</u>: 92. Figured holotype USNM 85312.

- globatus Lea, <u>Unio</u>: 1871, PANSP <u>23</u>: 191 (Holston River, East Tennessee; Etowah River, Georgia); 1874, JANSP (2) <u>8</u>: 5, pl. 1, fig. 1; 1874, Obs. <u>13</u>: 9. Figured holotype USNM 85820 from the former locality.
- globosa Lea, Anodonta: 1841, PAPS 2: 31 (Concha Lake, 20 leagues [= 60 mi.] S Vera Cruz near Tlocatalpam [Tlacatalpan, Vera Cruz State], Mexico); 1842, TAPS 8: 241, pl. 24, fig. 56; 1842, Obs. 3: 79. Figured holotype USNM 86701.
- globosa Lea, Symphynota: 1834, TAPS 5: 41, pl. 4, fig. 12

 (River Ohio, 150 mi. below Louisville [Kentucky]; Long);

 1834, Obs. 1: 153. Type not in the USNM; smaller syntypes

 ANSP 56609 from Long, mentioned as in the ANSP.
 - globosus Lea, Unio: 1831, TAPS 4: 119 ([Ohio]); 1834, Obs.
 1: 129. Types not found in the USNM or ANSP, though
 mentioned as in the latter.
 - goascoranensis Lea, <u>Unio</u>: 1858, PANSP <u>10</u>: 118 (River Goascoran, Honduras, Pacific slope); 1860, JANSP (2) <u>4</u>: 258, pl. 41; fig. 139; 1860, Obs. <u>7</u>: 76. Figured holotype USNM 85086.
- gouldii Lea, <u>Unio</u>: 1845, PAPS <u>4</u>: 165 ([Black Warrior River]

 Tuscaloosa [Tuscaloosa Co.], Alabama); 1848, TAPS <u>10</u>: 76,
 p. 6, fig. 16; 1848, Obs. <u>4</u>: 50. Known only from the
 figured holotype USNM 85160.

- gracilentus Lea, <u>Unio</u>: 1857, PANSP <u>9</u>: 85 (Catawba River, Gaston Co., North Carolina); 1861, JANSP (2) <u>5</u>: 58, pl. 3, fig. 205; 1862, Obs. 8: 62. Figured holotype USNM 85976.
- gracilis Lea, Anodonta: 1850, Proc. Zool. Soc. London, p. 197

 (Dingle, Isle of Panay, Philippine Islands); 1860, JANSP

 (2) 4: 239, pl. 34, fig. 119; 1860, Obs. 7: 57. Figured holotype USNM 86722.
- gracillior Lea, Unio: 1856, PANSP 8: 262 (Buckhead Creek [Burke Co.]; Tobesaufke [Tobesofkee] Creek near Macon [Bibb Co.];

 both Georgia); 1858, JANSP (2) 4: 56, pl. 8, fig. 38,

 1858, Obs. 6: 56. Figured holotype USNM 85088 [localities not separated].
 - granadensis Lea, Anodonta: 1868, PANSP 20: 96 (Lake Nicaragua
 [Central America]); 1868, JANSP (2) 6: 288, pl. 41,
 fig. 100; 1869, Obs. 12: 48. Figured holotype USNM 86655.
- granadensis Lea, Unio: 1868, PANSP 20: 95 (Lake Nicaragua
 [Central America]); 1868, JANSP (2) 6: 292, pl. 42, fig.
 103; 1869, Obs. 12: 53. Figured holotype USNM 84388.
 Non Unio granadensis Conrad 1855. Changed to: Micronaias
 marshalli, Morrison, 1943, Nautilus 57: 15.

- grandidens Lea, Unio: 1862, PANSP 14: 168 (near Hot Springs, Arkansas); 1862, JANSP (2) 5: 205, pl. 30, fig. 274; 1863, Obs. 9: 27. Figured holotype USNM 84313 consists of a single valve. Is a Chinese species, Quadrula nodulosa Wood, teste Simpson, 1900, PUSNM 22: 799.
- grandioides Lea, Anodonta: 1868, PANSP 20: 164 ([Fish-house], 6 mi. NE Camden, [Camden Co.], New Jersey; Pleistocene, teste Pilsbry, 1896, PANSP 48: 567-570). Measured holotype ANSP 31516. Specimen figured by Whitfield, 1885, Brach. and Lamell. Raritan Clays and Greensand Marls, p. 251, pl. 34, figs. 2, 3. Is Anodonta grandis Say.
- graniferus Lea, <u>Unio</u>: 1838, TAPS <u>6</u>: 69, pl. 19, fig. 60

 (Ohio River, near Cincinnati [Hamilton Co.], Ohio,

 T. G. Lea); 1838, Obs. <u>2</u>: 69. Figured holotype USNM 84296
 labeled, "Tennessee River, Tuscumbia, Colbert Co., Alabama;
 Pybas."
- granulatus Lea, <u>Unio</u>: 1861, PANSP <u>13</u>: 40 (Big Prairie Creek [Hale Co]; Alabama); 1866, JANSP (2) <u>6</u>: 46, pl. 16, fig. 46; 1867: Obs. <u>11</u>: 52. Known only from the figured holotype USNM 85297.

- gratus Lea, <u>Unio</u>: 1860, PANSP <u>12</u>: 91 (Uruguay River, [Argentina and Uruguay]); 1863, JANSP (2) <u>5</u>: 382, pl. 43, fig. 290; 1863, Obs. <u>10</u>: 18. Known only from the figured holotype USNM 85784.
- <u>gravidus</u> Lea, <u>Unio</u>: 1856, PANSP <u>8</u>: 93 (Siam); 1857, JANSP (2) <u>3</u>: 292, p1. 24, fig. 5; 1857, Obs. <u>6</u>: 12. Figured holotype USNM 83935.
- <u>grayanus</u> Lea, <u>Unio</u>: 1834, TAPS <u>5</u>: 66, pl. 9, fig. 26 (China); 1834, Obs. <u>1</u>: 178. Figured holotype USNM 84162.
- griffithianus Lea, <u>Unio</u>: 1834, TAPS <u>5</u>: 103, pl. 15, fig. 46

 (South Carolina); 1834, Obs. <u>1</u>: 215. Figured holotype

 USNM 85610.
- hainesianus Lea, <u>Unio</u>: 1856, PANSP <u>8</u>: 92 (Siam, Haines);

 1857: JANSP (2) <u>3</u>: 289, pl. 21, fig. 1; 1857, Obs. <u>6</u>: 9.

 Figured type not in the USNM or ANNH; syntype USNM 83933.
- haleianus Lea, <u>Unio</u>: 1842, TAPS <u>8</u>: 247, pl. 27, fig. 63

 (Mississippi River, 30 mi. above New Orleans); 1842,

 Obs. <u>3</u>: 85. Known only from the figured holotype USNM

 85306 marked on shell, [Red River] Alexandria [Rapides Parish, Louisiana].

- hallenbeckii Lea, Anodonta: 1858, PANSP 10: 138 (Uphaupee [Uphapee] Creek, Macon Co., Georgia [Alabama]; 1859, JANSP (2) 4: 232, pl. 32, fig. 112; 1859, Obs. 7: 50. Figured holotype USNM 86428.
- hallenbeckii Lea, Unio: 1859, PANSP 11: 170 (Flat Rock Creek and Four Mile Creek, near Columbus [Muscogee Co.], Georgia); 1860, JANSP (2) 4: 328, pl. 51, fig. 154; 1860, Obs. 8: 10. Figured holotype USNM 85537 written in the shell is Black Dirt Creek, [near Columbus, Muscogee Co., Georgia].
- hanleyianus Lea, Unio: 1852, TAPS 10: 279, p1. 23, fig. 37
 (Coosawattee River, Murray Co., Georgia); 1852, Obs. 5:
 35. Figured holotype USNM 84717.
- harpethensis Lea, <u>Unio</u>: 1840, PAPS <u>1</u>: 289 (Harpeth River, Tennessee); 1842, TAPS <u>8</u>: 224, pl. 19, fig. 42; 1842, Obs. <u>3</u>: 62. Figured holotype USNM 86657.
- hartmanianus Lea, <u>Unio</u>: 1860, PANSP <u>12</u>: 307 (Coosa River, Wetumpka, [Elmore Co.], Alabama; Clinch River, Tennessee); 1861, JANSP (2) <u>5</u>: 73, pl. 8, fig. 222; 1862, Obs. <u>8</u>: 77. Figured holotype USNM 84652 from the former locality.

- <u>hastatus</u> Lea, <u>Unio</u>: 1874, PANSP for 1873, <u>25</u>: 423 (New Market, Abbeville District [Savannah River drainage] South Carolina; Rocky Creek, near Macon, Bibb Co., Georgia); 1874, JANSP (2) <u>8</u>: 56, pl. 19, fig. 54; 1874, Obs. <u>13</u>: 60. Figured holotype USNM 86013 from the former locality.
- haysianus Lea, Unio: 1834, TAPS 5: 35, pl. 3, fig. 7 (Cumberland River [Tennessee], Troost); 1834, Obs. 1: 147. Type [lost]; specimen USNM 84613, subsequently identified by Lea from Edgar.
- hazlehurstianus Lea, <u>Unio</u>: 1858, PANSP <u>10</u>: 166 (Satilla River, Camden Co., Georgia); 1859, JANSP (2) <u>4</u>: 211, pl. 26, fig. 92; 1859, Obs. <u>7</u>: 29. Figured holotype USNM 86009.
- <u>hebes</u> Lea, <u>Unio</u>: 1852, TAPS <u>10</u>: 267, pl. 18, fig. 21 (Oconee River, near Athens [Clarke Co.], Georgia); 1852, Obs. <u>5</u>: 23. Known only from the figured holotype USNM 85383.
- heermannii Lea, <u>Unio</u>: 1861, PANSP <u>13</u>: 392 (Medina River, [San Antonio River system], Texas); 1862, JANSP (2) <u>5</u>: 194, pl. 26, fig. 263; 1863, Obs. <u>9</u>: 16. Figured holotype USNM 83932.
- henryana Lea, Anodonta: 1857, PANSP 9: 102 ([Rio Grande]

 Matamoras, Tamaulipas [State], Mexico); 1860, JANSP (2)
 4: 373, pl. 66, fig. 198; 1860, Obs. 8: 55. Figured
 holotype USNM 86692.

- hepaticus Lea, <u>Unio</u>: 1859, PANSP <u>11</u>: 154 (Salkahatchee River, South Carolina); 1860, JANSP (2) <u>4</u>: 348, pl. 57, fig. 173; 1860, Obs. 8: 30. Figured holotype USNM 35559.
- heterodon Lea, Unio: 1829, TAPS 3: 428, pl. 8, fig. 11; 1834, Obs. 1: 42 (Schuylkill [River] and Derby Creek [mostly in Delaware Co.], Pennsylvania). Figured type belonged to Mr. Mason, not in the USNM or ANSP [presumed lost]. Lea mentioned specimens in the possession of T. A. Conrad now ANSP 41004 and 41005.
- higginsii Lea, <u>Unio</u>: 1857, PANSP <u>9</u>: 84 (Mississippi River, Muscatine [Muscatine Co.], Iowa); 1862, JANSP (2) <u>5</u>: 188, p1. 24, fig. 258; 1863, Obs. <u>9</u>: 10. Figured holotype USNM 84823.
- hildrethianus Lea, <u>Unio</u>: 1834, TAPS <u>5</u>: 36, pl. 3, fig. 8;

 1834, Obs. <u>1</u>: 148 (Ohio [River] near Marietta [Washington Co., Ohio]). Figured type not in the USNM; syntypes

 ANSP 41826 mentioned as in the ANSP.
- hippopaeus Lea, <u>Unio</u>: 1845, PAPS <u>4</u>: 163 (Lake Erie); 1848, TAPS <u>10</u>: 67, pl. 1, fig. 1; 1848, Obs. <u>4</u>: 41. Known only from the figured holotype USNM 84096.
- holstonensis Lea, <u>Unio</u>: 1840, PAPS <u>1</u>: 288 (Holston River, Tennessee); 1842, TAPS <u>8</u>: 212, pl. 14, fig. 27; 1842, Obs. <u>3</u>: 50. Figured holotype USNM 84641.

- holstonia Lea, Margaritana: 1838, TAPS <u>6</u>: 42, pl. 13, fig. 37 (Holston River, [Tennessee]): 1838, Obs. <u>2</u>: 42. Figured holotype USNM 86320.
- holtonis Lea, Anodonta: 1857, PANSP 9: 85 (near Cartago, New Grenada [Colombia]); 1857, JANSP (2) 3: 316, pl. 32, fig. 31; 1857, Obs. 6: 36. Figured holotype USNM 86519.
- homsensis Lea, Unio: 1864, PANSP 16: 285 (Lake Homs, ancient Emesa, River Orontes, North Syria; Wheatley); 1868, JANSP (2) 6: 249, pl. 29, fig. 63; 1869, Obs. 12: 9. Figured holotype ANSP 125718 in the Wheatley colln.
 - hopetonensis Lea, <u>Unio</u>: 1838, TAPS <u>6</u>: 29, pl. 9, fig. 24

 ([Altamaha River] Hopeton, near Darien, [McIntosh Co.,

 Georgia]); 1838, Obs. 2: 29. Figured holotype USNM 85391.
- housei Lea, Unio: 1856, PANSP 8: 92 (Siam); 1857, JANSP (2)
 3: 291, pl. 23, fig. 3; 1857, Obs. 6: 11. Figured
 holotype USNM 83951.
- houstonensis Lea, Unio: 1859, PANSP 11: 155 ([Houston River],
 Houston, [Harris Co.]; [Colorado River], Rutersville,
 [Fayette Co.], both Texas); 1860, JANSP (2) 4: 358, pl. 60,
 fig. 183; 1860, Obs. 8: 40. Figured holotype USNM 85768
 from the latter locality.

- humerosoides Lea, Unio: 1868, PANSP 20: 163 ([Fish-house], 6 mi. NE Camden [Camden Co.], New Jersey; Pleistocene, teste Pilsbry, 1896, PANSP 48: 567-570). Measured holotype ANSP 31518, figured by Whitfield, 1885, Brach. and Lamell. Raritan Clays and Greensand Marls of N.J., p. 248, pl. 31, fig. 4. Is Elliptio complanata (Lightfoot).
- humerosus Lea, <u>Unio</u>: 1868, PANSP <u>20</u>: 161 (Charlotte, Mecklenburg Co., North Carolina); 1868, JANSP (2) <u>6</u>: 301, p1.
 45, fig. 113; 1869, Obs. <u>12</u>: 61. Figured holotype USNM 85414.
- humilis Lea, <u>Unio</u>: 1856, PANSP <u>8</u>: 93 (Siam); 1857, JANSP
 (2) <u>3</u>: 296, pl. 26, fig. 10; 1857, Obs. <u>6</u>: 16. Figured holotype USNM 84153.
- hyalinus Lea, Unio: 1845, PAPS 4: 164 ([James River Drainage]
 Richmond [Henrico Co.], Virginia); 1848, TAPS 10: 69, pl.
 2, fig. 4; 1848, Obs. 4: 43. Known only from the figured holotype USNM 86131.
- hydianus Lea, <u>Unio</u>: 1838, TAPS <u>6</u>: 14, pl. 6, fig. 14 (Teche River [St. Landry Parish]; vicinity of New Orleans [Orleans Parish]; <u>both</u> Louisiana); 1838, Obs. <u>2</u>: 14. Figured holotype USNM 85010 from the former locality.

- <u>inaequivalva Lea, Anodonta</u>: 1868, PANSP <u>20</u>: 95 (Lake Nicaragua [Central America]); 1868, JANSP (2) <u>6</u>: 292, pl. 43, fig. 108; 1869, Obs. 12: 52. Figured holotype USNM 86767.
- incerta Lea, Anodonta: 1834, TAPS 5: 46, pl. 6, fig. 16 (Ohio River, near Cincinnati [Hamilton Co., Ohio]; T.G. Lea);
 1834, Obs. 1: 158. Type not found in the USNM or ANSP, though mentioned as in the ANSP.
- incrassatus Lea, Unio: 1840, PAPS 1: 286 (Chattahoochee River
 near Columbus [Muscogee Co.], Georgia); 1842, TAPS 8: 217,
 pl. 16, fig. 34; 1842, Obs. 3: 55. Figured holotype USNM
 84537.
- <u>incurvus</u> Lea, <u>Unio</u>: 1831, TAPS <u>4</u>: 97, pl. 13, fig. 27

 (Gibraltar); 1834, Obs. <u>1</u>: 107. Figured holotype USNM

 85731.
- Indefinitus Lea, Unio: 1863, PANSP 15: 192 (Long Creek, Mecklenburg Co.; Neuse River, near Raleigh [Wake Co.]; both
 North Carolina); 1866, JANSP (2) 6: 15, pl. 4, fig. 12;
 1867, Obs. 11: 19. Figured holotype USNM 85388 from the
 former locality.
- ineptus Lea, Unio: 1852, TAPS 10: 261, pl. 15, fig. 12 (Abbeville District [Savannah River drainage], South Carolina); 1852,
 Obs. 5: 17. Known only from the figured holotype USNM
 - 85326.

- <u>inflata</u> Lea, <u>Symphynota</u>: 1831, TAPS <u>4</u>: 99, pl. 14, fig. 28; 1834, Obs. <u>1</u>: 109 (Alabama River). Figured holotype USNM 83909.
- <u>infulgens</u> Lea, <u>Unio</u>: 1874, PANSP for 1873, <u>25</u>: 422 (Stewarts [Mill] Pond, Union Co., North Carolina); 1874, JANSP (2) <u>8</u>: 60: pl. 21, fig. 59; 1874, Obs. <u>13</u>: 64. Figured holotype USNM 85403.
- infuscus Lea, Unio: 1872, PANSP 24: 159 (Fox River [not located];
 Irwins Creek, Mecklenburg Co.; both North Carolina);
 1874, JANSP (2) 8: 51, pl. 17, fig. 49; 1874, Obs. 13:
 55. Figured holotype USNM 85587 from the former locality.
- <u>ingallsianus</u> Lea, <u>Unio</u>: 1852, TAPS <u>10</u>: 282, pl. 24, fig. 41 (Siam); 1852, Obs. <u>5</u>: 38. Figured holotype USNM 85933.
- <u>inornatus</u> Lea, <u>Unio</u>: 1856, PANSP <u>8</u>: 93 (Siam); 1857, JANSP

 (2) <u>3</u>: 293, pl. 24, fig. 6; 1857, Obs. <u>6</u>: 13. Figured holotype USNM 85196.
- <u>insolidus</u> Lea, <u>Unio</u>: 1872, PANSP <u>24</u>: 159 (frwins Creek, Mecklenburg Co., North Carolina); 1874, JANSP (2) <u>8</u>: 40, pl. 13, fig. 37; 1874, Obs. <u>13</u>: 44. Figured holotype USNM 83974.
- <u>instructus</u> Lea, <u>Unio</u>: 1861, PANSP <u>13</u>: 59 (Cahawba River,

 Alabama); 1861, JANSP (2) <u>5</u>: 82, pl. 10, fig. 230; 1862,

 Obs. <u>8</u>: 86. Known only from the figured bolotype **USNM** 84640.

- insulans Lea, Unio: 1857, PANSP 9: 86 (Roanoke River, Weldon [Halifax Co.], North Carolina); 1861, JANSP (2) 5: 53, pl. 1, fig. 199; 1862, Obs. 8: 57. Figured holotype USNM 85644.
- intercedens Lea, Unio: 1857, PANSP 9: 32 (streams near Columbus
 [Muscogee Co.], Georgia); 1858, JANSP (2) 9: 77, pl. 15,
 fig. 57; 1858, Obs. 6: 77. Known only from the figured
 holotype USNM 85122.
- interruptus Lea, <u>Unio</u>: 1838, TAPS <u>6</u>: 15, pl. 6, fig. 15

 (Harpeth River, Tennessee); 1838, Obs. <u>2</u>: 15. Figured holotype USNM 84962.
- inusitatus Lea, Unio: 1859, PANSP 11: 171 [as inusitatis]

 (Swift Creek, below Macon [Dibb Co.], Georgia); 1860,

 JANSP (2) 4: 333, pl. 52, fig. 158; 1860, Obs. 8: 15,

 corrected to inusitatus on errata sheet. Figured holotype

 USNM 85531.

- invenustus Lea, <u>Unio</u>: 1874, PANSP for 1873, <u>25</u>: 424 ([Chatta-hoochee River] Columbus [Muscogee Co.]; Russell Co.; <u>both</u> Georgia. Irwins Creek [Mecklenburg Co.], North Carolina); 1874, JANSP (2) <u>8</u>: 66, pl. 22, fig. 62; 1874, Obs. <u>13</u>: 70. Figured holotype USNM 85704 from the first locality.
- <u>iris</u> Lea, <u>Unio</u>: 1829, TAPS <u>3</u>: 439, pl. 11, fig. 18 (Ohio; T. G. Lea); 1834, Obs. <u>1</u>: 53. Type [lost].
- <u>irrasus</u> Lea, <u>Unio</u>: 1861, PANSP <u>13</u>: 38 (Etowah River, Georgia); 1861, JANSP (2) <u>5</u>: 91, pl. 13, fig. 239; 1862, Obs. <u>8</u>: 95. Figured holotype USNM 84637.
 - <u>irroratus</u> Lea, <u>Unio</u>: 1828, TAPS <u>3:</u> 269, pl. 5, fig. 5 (Ohio); 1834, Obs. <u>1</u>: 11. Figured holotype USNM 84637.
- <u>irwinensis</u> Lea, <u>Unio</u>: 1872, PANSP <u>24</u>: 159 (Irwins Creek, [Mecklenburg Co.], North Carolina); 1874, JANSP (2) <u>8</u>: 44, pl. 15, fig. 42; 1874, Obs. <u>13</u>: 48. Figured holotype USNM 85680.
- <u>isocardiodes</u> Lea, <u>Plagiodon</u>: 1856, PANSP <u>8</u>: 79 (Rio Plata [Argentina]); 1857, JANSP (2) <u>3</u>: 318, pl. 32, fig. 32; 1857, Obs. <u>6</u>: 38. Figured holotype USNM 86326.
- jamesianus Lea, Unio: 1857, PANSP 9: 84 ([Pearl River]

 Jackson, [Hinds Co.], Mississippi); 1858, JANSP (2) 4:
 53, pl. 6, fig. 35; 1858, Obs. 6: 52. Known only from
 the figured holotype USNM 85365.

- japanensis Lea, Unio: 1859, PANSP 11: 153 (Japan; Cuming); 1860,
 JANSP (2) 4: 244, pl. 36, fig. 123; 1860, Obs. 7: 62.
 Figured holotype BMNH 1965181.
- javanus Lea, Unio: 1840, PAPS 1: 285 (Java); 1842, TAPS 8:
 220, pl. 18, fig. 37; 1842, Obs. 3: 58. Known only from
 the figured holotype USNM 85187.
- jayensis Lea, Unio: 1838, TAPS 6: 28, pl. 9, fig. 23 (Florida);
 1838, Obs. 2: 28. Figured holotype USNM 86031, consists of
 a single valve.
- jeffreysianus Lea, <u>Unio</u>: 1871, PANSP <u>23</u>: 188 (Australia; restricted to Yarra River, Victoria by Iredale 1934,

 Australian Zool. <u>8</u>: 60); 1874, JANSP (2) <u>8</u>: 23, pl. 7,

 fig. 20; 1874, Obs. <u>13</u>: 27. Figured holotype USNM 84849,

 refigured by McMichael and Hiscock 1958, Australian Jour.

 Marine and F.W. Res. <u>9</u>: 392, pl. 1, figs. 3 5.
 - jejunus Lea, Unio: 1838, TAPS 6: 9, pl. 4, fig. 9 (Roanoke

 River [road between Winton and Tarborough, North Carolina];
 [Wateree River], near Camden [Kershaw Co.], South Carolina);
 1838, Obs. 2: 9. Figured holotype USNM 85475 from the
 latter locality.

- jewettiana Lea, Anodonta: 1868, PANSP 20: 95 (Lake Nicaragua [Central America]). Changed to:
- jewettii Lea, Anodonta: 1868, JANSP (2) 6: 289, pl. 41, fig. 101;
 1869, Obs. 12: 49. Known only from the figured holotype
 USNM 86681
- jewettii Lea, Unio: 1867, PANSP 19: 81 (Sink of Noonan's
 [Newnans] Lake [Alachua Co.], Florida); 1868, JANSP
 (2) 6: 276, pl. 37, fig. 89; 1869, Obs. 12: 36.
 Figured holotype USNM 85374, refigured by Johnson, 1972,
 Bull. Florida State Mus. 16: 222, fig. 9 C.
- johannis Lea, <u>Unio</u>: 1859, PANSP <u>11</u>: 171 (Connasauga River and Etowah River; <u>both</u> Georgia. Alabama River [Tuscaloosa] = [Black Warrior River, Tuscaloosa, Tuscaloosa Co.], Alabama); 1860, JANSP (2) <u>4</u>: 340, pl. 55, fig. 168; 1860, Obs. <u>8</u>: 25. Figured holotype USNM 84830 from the third locality.
- katherinae Lea, Unio: 1838, TAPS 6: 143 (not figured) (Lake
 Superior; Lady Katherine Douglas, St. Marys Isles, Scotland);
 1838, Obs. 2: 143. Type retained by Lady Douglas.
- <u>keinerianus</u> Lea, <u>Unio</u>: 1852, TAPS <u>10</u>: 281, pl. 23, fig. 40 (Coosawattee River, Murray Co., Georgia); 1852, Obs. <u>5</u>: 37. Figured holotype USNM 84273.

- kennerlyi Lea, Anodonta: 1860, PANSP 12: 306 (Chiloweyuck Depot
 [not relocated], near Puget Sound, Washington); 1861, JANSP
 (2) 5: 108, nl. 18, fig. 256; 1862, Obs. 8: 112. Figured
 holotype USNM 86533.
- kennicottii Lea, Anodonta: 1861, PANSP 13: 56 (Great Slave

 Lake at Fort Rae, [District of Mackenzie]; North end of Lake

 Winnipeg, [Manitobal; both Canada); 1862, JANSP (2) 5:

 214, pl. 33, fig. 283; 1863, Obs. 9: 36. Figured holotype

 USNM 86442 from the latter locality.
- <u>kirkii</u> Lea, <u>Unio</u>: 1864: PANSP <u>16</u>: 108 (Lake Nyassa, Central Africa); 1866, JANSP (2) <u>6</u>: 32, pl. 12, fig. 30; 1867, Obs. <u>11</u>: 36. Known only from the figured holotype USNM 84056.
- <u>kirtlandianus</u> Lea, <u>Unio</u>: 1834, TAPS <u>5</u>: 98, pl. 14, fig. 41

 (Mahoning [River], Ohio); 1834, Obs. <u>1</u>: 210. Figured

 holotype USNM 75815.
- kleinianus Lea, <u>Unio</u>: 1852, TAPS <u>10</u>: 265, pl. 17, fig. 18

 (Suwanee [Suwannee] River, Florida); 1852, Obs. <u>5</u>: 21.

 Figured holotype USNM 84041.
- kraussii Lea, Unio: 1853, PANSP 6: 376. Substitute name for Castalia sulcata Erauss 1853 when Lea placed this in the genus Unio. Non Unio sulcata Lea 1829. Since put in Castaliella, which renders the change unnecessary.

- kullethensis Lea, <u>Unio</u>: 1865, PANSP <u>16</u>: 285 (near Mardin, in a stream from Kulleth, falling into the Tigris River [Iraq]);
 1868, JANSP (2) <u>6</u>: 251, pl. 29, fig. 65; 1869, Obs. <u>12</u>: 11.
 Figured holotype USNM 85663.
 - <u>lacrymosus</u> Lea, <u>Unio</u>: 1828, TAPS <u>3</u>: 272, pl. 6, fig. 8 (Ohio); 1834, Obs. <u>1</u>: 14. Figured holotype USNM 84165.
- lacteolus Lea, Unio: 1834, TAPS 5: 40, pl. 8, fig. 19 (Rio
 de la Plata [Argentina]); 1834, Obs. 1: 152. Figured
 holotype returned to Hyde [lost]; paratype mentioned
 as in the ANSP [lost].
- lacustris Lea, Anodonta: 1857, PANSP 9: 84 (Crooked Lake and
 Little Lakes, New York); 1860, JANSP (2) 4: 363, pl. 62,
 fig. 188; 1860, Obs. 8: 45. Figured holotype USNM 86597
 labeled, Mohawk Region.
 - <u>laevissima</u> Lea, <u>Symphynota</u>: 1829, TAPS <u>3:</u> 444, pl. 13, fig. 23 (Ohio); 1834, Obs. <u>1</u>: 58. Figured holotype USNM 83938.
- lanceolata Lea, Triquetra: 1856, PANSP 8: 79 (China?). Measured holotype USNM 83884. Changed by Lea to Triquetra contorta [as being more appropriate], 1856, PANSP 8: 301; 1857, JANSP (2) 3: 319, pl. 33, fig. 3; 1857, Obs. 6: 39. Figured specimen BMNH 196400 from Shanghai [China], Cuming colln.

- lanceolatus Lea, Unio: 1828, TAPS 3: 266, pl. 3, fig. 2
 (Tar River, Tarborough [Edgecombe Co.], North Carolina);
 1834, Obs. 1: 8. Figured holotype USNM 85905.
- lamarckianus Lea, Unio: 1852, TAPS 10: 266, pl. 17, fig. 20

 (Caddo River; Washitta River near the Hot Springs [Garland Co.]; both Arkansas); 1852, Obs. 5: 22. Figured holotype
 USNM 84306 from White River Arkansas; from Shaeffer, who
 was mentioned in the description.
- <u>lamellatus</u> Lea, <u>Unio</u>: 1838, TAPS <u>6</u>: 19, pl. 6, fig. 16 (Bengal); 1838, Obs. <u>2</u>: 19. Figured holotype USNM 85173
- latecostatus Lea, Unio: 1845, PAPS 4: 163 ([Black Warrior River]

 Tuscaloosa [Tuscaloosa Co.], Alabama; B. W. Budd); 1848,

 TAPS 10: 68, pl. 1, fig. 2; 1848, Obs. 4: 42. Type not in the
 USNM [lost].
- latomarginata Lea, Anodonta: 1834, TAPS 5: 76, pl. 12, fig. 34

 (River Parana [Argentina and Brazil]; Burrough); 1834,

 Obs. 1: 188. Type not found in the USNM or ANSP, though
 mentioned by Lea as in the ANSP.

- latus Lea, Unio: 1859, PANSP 11: 171 (Savannah River, near
 Savannah [Chatham Co.], Georgia); 1860, JANSP (2) 4: 334,
 p1. 53, fig. 159; 1860, Obs. 8: 16. Figured holotype
 USNM 85898.
- lawii Lea, Unio: 1871, PANSP 23: 189 (Tennessee River, Tuscumbia [Colbert Co.], Alabama; Holston River, Tennessee);
 1874, PANSP (2) 8: 8, pl. 2, fig. 4; 1874, Obs. 13: 12.
 Figured holotype USNM 84757 from the latter locality.
- <u>layardii</u> Lea, <u>Unio</u>: 1859, PANSP <u>11</u>: 153 (Ceylon; Cuming); 1860, JANSP (2) <u>4</u>: 243, pl. 36, fig. 122; 1860, Obs. <u>7</u>: 61. Known only from the figured holotype BMNH 1956159.
- lazarus Lea, Unio: 1852, TAPS 10: 259, pl. 14, fig. 9

 (Abbeville District [Savannah River drainage], South
 Carolina); 1852, Obs. 5: 15. Figured holotype USNM 86155.
- <u>lecontianus</u> Lea, <u>Unio</u>: 1838, TAPS <u>6</u>: 40, pl. 12, fig. 35

 (Canoochee River [Liberty Co.], Georgia); 1838, Obs. <u>2</u>:

 40. Figured holotype USNM 84852.
- leibii Lea, Unio: 1862, PANSP 14: 168 ([Lake Erie] Erie
 Co. [sic] [Monroe Co.], Michigan); 1866, JANSP (2) 6:
 44, pl. 15, fig. 42; 1867, Obs. 11: 48. Figured holotype USNF84425 consists of one valve.

- lenis Lea, Unio: 1840, PAPS 1: 286 (Stone's River, Tennessee).
 Non Conrad 1840. Changed to:
- <u>lenior</u>, Lea, <u>Unio</u>: 1842, TAPS <u>8</u>: 204, pl. 12, fig. 18; 1842, Obs. <u>3</u>: 42. Figured holotype USNM 86130.
 - lens Lea, Unio: 1831, TAPS 4: 80, pl. 8, fig. 10 (Ohio, T. G.
 Lea; Tennessee, Vanuxem); 1834, Obs. 1: 90. Type [lost].
 - lenticularis Lea, Anodonta: 1868, PANSP 20: 95 (Lake Nicaragua
 [Central America]); 1868, JANSP (2) 6: 290, pl. 41, fig.
 102; 1869, Obs. 12: 50. Known only from the figured
 holotype USNM 86704.

 - lentiformis Lea, Monocondylaea: 1866, PANSP 18: 34 (South
 America); 1868, JANSP (2) 6: 272, pl. 36, fig. 86; 1869,
 Obs. 12: 32. Known only from the figured holotype USNM
 86335.
 - <u>leonensis</u> Lea, <u>Anodonta</u>: 1862, PANSP <u>14</u>: 169 (Leon Co., Texas); 1866, JANSP (2) <u>6</u>: 25, pl. 9, fig. 24; 1867, Obs. <u>11</u>: 29. Figured holotype USNM 87806.

- lepidus Lea, Unio: 1860, PANSP 12: 91 (Uruguay River [Argentina
 and Uruguay]); 1863, JANSP (2) 5: 390, pl. 50, fig. 306;
 1863, Obs. 10: 25. Figured holotype USNM 85624. Non
 Unio lepidus Gould 1856. Changed to:
- lepidior Lea, Margaron (Unio): 1870, Synopsis Unionidae, ed. 4,
 p. 53.
- lesleyi Lea, Unio: 1860, PANSP 12: 306 (Kentucky; [Cumberland
 River drainage near Murfreesboro, Rutherford Co.]; Tennessee);
 1860, JANSP (2) 4: 353, pl. 58, fig. 177; 1860, Obs. 8:
 34. Figured holotype USNM 84759, from the former locality.
- <u>lesueurianus</u> Lea, <u>Unio</u>: 1840, PAPS <u>1</u>: 286 (Caney Fork [of the Cumberland River], and Holston River; <u>both</u> Tennessee);
 1842, TAPS <u>8</u>: 195, pl. 8, fig. 6; 1842, Obs. <u>3</u>: 33. Figured holotype USNM 85803 from the latter locality.
- lewisii Lea, Anodonta: 1857, PANSP 9: 84 (Erie Canal; Mohawk
 River; [both] Herkimer Co.; Genesee River below Rochester
 [Monroe Co.]; all New York); 1860, JANSP (2) 4: 362, pl.
 62, fig. 187; 1860, Obs. 8: 44. Figured holotype USNM
 86595, from the Mohawk River.
- lewisii Lea, Unio: 1861, PANSP 13: 40 (Coosa River, Alabama);
 1861, JANSP (2) 5: 71, pl. 8, fig. 220; 1862, Obs. 8: 75.
 Figured holotype USNM 85806.

- ligamentinoides Lea, Unio: 1868, PANSP 20: 164 ([Fish-house],
 6 mi. NE Camden, [Camden Co.], New Jersey; Pleistocene,
 teste Pilsbry, 1896, PANSP 48: 567-570). Measured holotype
 ANSP 31522, figured by Whitfield, 1885, Brach. and
 Lamell. Raritan Clays and Greensand Marls of N. J., p. 249,
 pl. 31, fig. 1. Is Actinonaias carinata (Barnes).
- <u>ligatus</u> Lea, <u>Unio</u>: 1872, PANSP <u>24</u>: 157 (Irwins Creek, Mecklenburg Co.; Long Creek, Gaston Co.; <u>both</u> North Carolina);
 1874, JANSP (2) <u>8</u>: 49, pl. 17, fig. 47; 1874, Obs. <u>13</u>:
 53. Figured holotype USNM 85590 from the former locality.
- lincecumii Lea, Unio: 1868, PANSP 20: 144 ([Trinity River],
 Dallas Co., Texas; Brazos River, Central Texas); 1868,

 JANSP (2) 6: 312, pl. 49, fig. 125; 1869, Obs. 12: 72.

 Figured holotype USNM 84112 from the former locality.
- <u>lindslevi</u> Lea, <u>Unio</u>: 1860, PANSP <u>12</u>: 306 (Tennessee); 1860, JANSP (2) <u>4</u>: 351, pl. 58, fig. 176; 1860, Obs. <u>8</u>: 33. Figured holotype USNM 84967.
 - <u>lineatus</u> Lea, <u>Unio</u>: 1840, PAPS <u>1</u>: 287 (Chattahoochee River, Columbus [Muscogee Co.], Georgia); 1842, TAPS <u>8</u>: 206, pl. 12, fig. 20; 1842, Obs. <u>3</u>: 44. Figured holotype USNM 84884.
 - Non Bory de St. Vincent 1827, changed to <u>Lampsilis bi-nominatus</u> Simpson, 1900, PUSNM <u>22</u>: 528.

- linguaeformis Lea, Unio: 1860, PANSP 12: 305 ([Chattahoochee
 River] near Columbus, [Muscogee Co.], Georgia; French
 Broad River, Tennessee); 1860, JANSP (2) 4: 345, pl. 56,
 fig. 170; 1860, Obs. 8: 27. Figured holotype USNM 85259,
 from the former locality.
- linnaena Lea, Anodonta: 1852, TAPS 10: 289, pl. 27, fig. 51
 (Lake Concordia [Concordia Parish], Louisiana); 1852, Obs.
 - 5: 45. Known only from the figured holotype USNM 86702.
- <u>litus</u> Lea, <u>Unio</u>: 1871, PANSP <u>23</u>: 189 (Cahaba River, Shelby Co., Alabama); 1874, JANSP (2) <u>8</u>: 17, pl. 5, fig. 13; 1874, Obs. <u>13</u>: 21. Figured holotype USNM 85142.
- livingstonensis Lea, Unio: 1863, PANSP 15: 192 (Livingston's Creek [NE Corner of Columbus Co.], Brunswick Co., North Carolina);
 1866, JANSP (2) 6: 14, pl. 4, fig. 11; 1867, Obs. 11: 18.
 Figured holotype USNM 85536.
- 1ocellus Lea, Unio: 1866, PANSP 18: 34 (Buenos Ayres, Argentina);
 1868, JANSP (2) 6: 264, pl. 33, fig. 79; 1869, Obs. 12:
 24. Known only from the figured holotype USNM 85189.
- <u>lucidus</u> Lea, <u>Unio</u>: 1863, PANSP <u>15</u>: 192 (Livingston's creek,

[NE corner of Columbus Co.], Brunswick Co., North Carolina); 1866, JANSP (2) 6: 9, pl. 2, fig. 6; 1867, Obs. 11: 13. Figured holotype USNM 85242.

- lugubris Lea, Unio: 1838, TAPS 6: 30, pl. 9, fig. 25 ([Altamaha
 River] Hopeton, near Darien, [McIntosh Co., Georgia]);
 1838, Obs. 2: 30, non Say 1832. Figured holotype USNM
 85638.
- luridus Lea, Unio: 1852, TAPS 10: 273, p1. 20, fig. 29
 (Coosawattee River, Murray Co., Georgia); 1852, Obs.
 5: 29. Figured holotype USNM 85253.
- lutens Lea, Unio: 1856, PANSP 8: 93 (Newville [Tavoy], Burma;
 Vinton, Haines colln.). Changed to:
- luteus Lea, Unio: 1857, JANSP (2) 3: 291, pl. 24, fig. 4;
 1857, Obs. 6: 11. Known only from the figured type,
 returned to Haines; not in the AMNH [lost].
- luteola Lea, Anodonta: 1858, PANSP 10: 118 (Isthmus of Darien
 [Panama]); 1860, JANSP (2) 4: 267, pl. 43, fig. 147; 1860,
 Obs. 7: 85. Known only from the figured holotype USNM
 86766.
 - 1yonii Lea, Unio: 1865, PANSP 17: 89 (near Cumberland Gap,
 East Tennessee); 1868, JANSP (2) 6: 259, pl. 32, fig. 74;
 1869, Obs. 12: 19. Known only from the figured holotype
 USNM 85804.

- macer Lea, Unio: 1857, PANSP 9: 86 (Roanoke River, Wheldon Halifax Co., North Carolina); 1862, JANSP (2) 5: 202, pl. 29, fig. 271; 1863, Obs. 9: 24. Figured holotype USNM 85425. The specimen listed as the type USNM 85427 by Johnson 1970, Bull. Mus. Comp. Zool. 140: 315 is a subsequently identified specimen.
- - maconensis Lea, Unio: 1857, PANSP 9: 172 (Flint River, near
 Macon [County], Georgia); 1858, JANSP (2) 4: 93, pl. 20,
 fig. 73; 1858, Obs. 6: 93. Figured holotype USNM 86004.
 - macrodon Lea, Unio: 1859, PANSP 11: 154 ([Colorado River],
 Rutersville [Fayette Co.], Texas); 1862, JANSP (2) 5: 193,
 p1. 26, fig. 262; 1863, Obs. 9: 15. Figured holotype
 USNM 25711.

 - <u>magnifica</u> Lea, <u>Symphynota</u>: 1834, TAPS <u>5</u>: 42, pl. 5, fig. 14 (China); 1834, Obs. <u>1</u>: 155. Figured holotype USNM 86379.

- mardinensis Lea, Monocondylaca: 1865, PANSP 16: 286 (near
 Mardin, in a stream falling into the Tigris River [Iraq]);
 1869, JANSP (2) 6: 252, pl. 30, fig. 67; 1869, Obs. 12:
 12. Figured holotype USNM 86354.
- mardinensis Lea, Unio: 1865, PANSP 16: 286 (Tigris River, near
 Mardin [Iraq]); 1868, JANSP (2) 6: 252, pl. 30, fig. 66;
 1869, Obs. 12: 12. Figured holotype USNM 85664.
- marginis Lea, <u>Unio</u>: 1865, PANSP <u>17</u>: 89 (Blue Springs

 [Albany] Dougherty Co., Georgia); 1868 JANSP (2) <u>6</u>: 255,

 pl. 31, fig. 69; 1869, Obs. <u>12</u>: 15. Figured holotype

 USNM 85295.
- marryattana Lea, Anodonta: 1840, PAPS 1: 289 ([Lake Winnebago] vicinity of Fort Winnebago [Winnebago Co., Wisconsin]);

 1842, TAPS 8: 226, pl. 20, fig. 45; 1842, Obs. 3: 64.

 Known only from the figured holotype 86706.
 - mauritianus Lea, Unio: 1859, PANSP 11: 152 (Island of
 Mauritius); 1860, JANSP (2) 4: 257, pl. 40, fig. 138;
 1860, Obs. 7: 75. Known only from the figured holotype
 BMNH 1965157.
- mecklenbergensis Lea, Unio: 1863, PANSP 15: 191 (near Charlotte,
 Mecklenberg Co., North Carolina); 1866, JANSP (2) 6: 17,
 pl. 5, fig. 15; 1867, Obs. 11: 21. Figured holotype
 USNM 85419.

- medellinus Lea, Unio: 1838, TAPS 6: 39, pl. 12, fig. 34 (River
 Medellin, near Vera Cruz [Vera Cruz State], Mexico;
 Burrough); 1838, Obs. 2: 39. Figured holotype ANSP 9679;
 paratype mentioned as in the Lea colln. [lost].
- mediocris Lea, Unio: 1863, PANSP 15: 192 (Neuse River, near
 [6 mi E] Raleigh, [Wake Co.], North Carolina: 1866,
 JANSP (2) 6: 24, pl. 7, fig. 22; 1867, Obs. 11: 28.
 Figured holotype USNM 85611.
- medius Lea, Unio: 1861, PANSP 13: 40 (near Coosa River, Alabama);
 1861, JANSP (2) 5: 78, pl. 10, fig. 227; 1862, Obs. 8: 82.
 Figured holotype USNM 84794.
- melleus Lea, <u>Unio</u>: 1859, PANSP <u>11</u>: 152 (Hab.?, Cuming; Central America, <u>teste</u> Simpson); 1860, JANSP (2) <u>4</u>: 250, pl. 38, fig. 129; 1860, Obs. <u>7</u>: 68. Known only from the figured holotype BMNH 1965175.
- menkianus Lea, <u>Unio</u>: 1838, TAPS <u>5</u>: 76, pl. 19, fig. 59 (Harpeth River, Tennessee); 1838, Obs. <u>2</u>: 76. Figured holotype USNM 84965.
- mercerii Lea, Unio: 1862, PANSP 14: 169 (Lee Co., [Flint
 River drainage], Georgia); 1862, JANSP (2) 5: 209, p1.
 31, fig. 278; 1863, Obs. 9: 31. Figured holotype USNM
 86057.

- meredithii Lea, Unio: 1858, PANSP 10: 40 (Tennessee River, Tuscumbia, [Colbert Co.], Alabama); 1861, JANSP (2) 5: 65, pl. 6, fig. 214; 1862, Obs. 8: 69. Figured holotype USNM 84393.
- merus Lea, Unio: 1852, TAPS 10: 260, pl. 15, fig. 10 (Abbeville
 District [Savannah River drainage], South Carolina);
 1852, Obs. 5: 16. Figured holotype USNM 85698.
- micans Lea, Unio: 1857, PANSP 9: 85 (Catawba River, Gaston
 Co.; Deep River; both North Carolina); 1861, JANSP (2)
 5: 59, pl. 3, fig. 207; 1862, Obs. 8: 63. Holotype
 USNM 85077 from the former locality.
- minor Lea, Unio: 1843, Desc. Twelve Uniones (Lake Monroe and
 Lake George, Florida); 1846, TAPS 9: 276, pl. 39, fig.
 3; 1848, Obs. 4: 34. Figured holotype USNN 85310 from the
 latter locality.
- modesta Lea, Anodonta: 1857, PANSP 9: 84 (Pond near Kalamazoo [Kalamazoo Co.], Michigan); 1860, JANSP (2) 4: 364, pl. 63, fig. 189; 1860, Obs. 8: 46. Known only from the figured holotype USNM 86534.

- modesta Lea, Spatha: 1864, PANSP 16: 109 (near Mozambique, Africa); 1866, JANSP (2) 6: 27, pl. 13, fig. 35; 1867, Obs. 11: 41. Known only from the figured holotype USNM 86779.
- modicellus Lea, <u>Unio</u>: 1859, PANSP <u>11</u>: 171 (Connasauga River; Chattanooga River; <u>both</u> Georgia); 1860, JANSP (2) <u>4</u>: 347, pl. 57, fig. 172; 1860, Obs. <u>8</u>: 29. Figured holotype USNM 84841 from the former locality.
- modicus Lea, <u>Unio</u>: 1857, PANSP <u>9</u>: 171 (Chattahoochee River, near Columbus [Muscogee Co.], Georgia); 1859, JANSP (2)

 <u>4</u>: 204, pl. 24, fig. 86; 1859, Obs. <u>7</u>: 22. Figured holotype USNM 84787.
- modioliformis Lea, Unio: 1834, TAPS 5: 97, pl. 13, fig. 40
 (Santee Canal, South Carolina); 1834, Obs. 1: 209.
 Figured holotype USNM 85029 [differs slightly from the figure].
- monroensis Lea, Unio: 1843, Desc. Twelve Uniones (Lake Monroe, Florida); 1846, TAPS 9: 279, pl. 41, fig. 8; 1848, Obs. 4: 37. Known only from the figured holotype USNM 85169.
- montezuma Lea, Anodonta: 1841, PAPS 2: 31 (Central America; Jay); 1842, TAPS 8: 240, pl. 23, fig. 55; 1842, Obs. 3: 78. Known only from the figured type, not in the USNM or AMNH [lost].

- mooresianus Lea, <u>Unio</u>: 1857, PANSP <u>9</u>: 83 ([Tennessee River]

 Tuscumbia [Colbert Co.], Alabama); 1866, JANSP (2) <u>6</u>:

 39, pl. 14, fig. 37; 1867, Obs. <u>11</u>: 43. Figured holotype

 USNM 84695.
- moricandii Lea, Anodonta: 1860, PANSP 12: 90 (Bahia, Brazil); 1863, JANSP (2) 5: 396, pl. 49, fig. 303; 1863, Obs. 10: 32. Figured holotype USNM 86695.
- mortoniana Lea, Anodonta: 1834, TAPS 5: 80, pl. 13, fig. 37

 (River Parana [Argentina]; Burrough); 1834, Obs. 1: 192.

 Known only from the figured type in the ANSP [lost].
- mosulensis Lea, <u>Unio</u>: 1863, PANSP <u>15</u>: 190 (River Tigris, Mosul [Iraq]); 1866, JANSP (2) <u>6</u>: 52, pl. 17, fig. 49; 1867, Obs. <u>11</u>: 56. Figured holotype USNM 85230.
 - mouhoti Lea, Monocondylaea: 1863, PANSP 15: 190 (Laos Mountains, Cambodia). Changed to:
 - mouhotiana Lea, Monocondylaea: 1866, JANSP (2) 6: 65, pl. 21, fig. 62; 1867, Obs. 11: 69. Figured holotype USNM 86339.
 - moussonianus Lea, <u>Unio</u>: 1852, TAPS <u>10</u>: 268, pl. 18, fig. 22 (Georgia); 1852, Obs. 5: 24. Figured holotype USNM 85168.
 - muhlfeldianus Lea, Unio: 1838, TAPS 6: 41, pl. 12, fig. 36
 (Cumberland River, Tennessee); 1838, Obs. 2: 41. Figured
 holotype USNM 85262.

- multiplicatus Lea, <u>Unio</u>: 1831, TAPS <u>4</u>: 70, pl. 4, fig. 2

 (Tennessee River, Vanuxem; Ohio River, T. G. Lea); 1834,

 Obs. <u>1</u>: 80. Type [lost].
- multiradiatus Lea, <u>Unio</u>: 1829, TAPS <u>3</u>: 434, pl. 9, fig. 15 (Ohio); 1834, Obs. 1: 48. Figured holotype USNM 84930.
- multistriatus Lea, <u>Unio</u>: 1831, TAPS <u>4</u>: 91, pl. 12, fig. 22

 (Brazil; Mawe); 1834, Obs. <u>1</u>: 101. USNM 84114 agrees with the figure and may be the type, though it is labeled, "Rio Joanes, near Bahia, Brazil; Moricand."
- mundus Lea, Unio: 1857, PANSP 9: 83 ([Tennessee River] Tuscumbia
 [Colbert Co.], Alabama); 1866, JANSP (2) 6: 40, pl. 14,
 fig. 38; 1867, Obs. 11: 44. Figured holotype USNM 84767.
- murchisonianus Lea <u>Unio</u>: 1834, TAPS <u>5</u>: 33, pl. 3, fig. 6

 (China; Murchison [shell and label marked, Calcutta,

 India; Murchison]); 1834, Obs. <u>1</u>: 145. Figured holotype

 USNM 84156.
- murrayensis Lea, Unio: 1868, PANSP 20: 143 (Connesauga Creek,
 Whitfield Co.; Etowah River; both Georgia); 1868, JANSP
 (2) 6: 303, pl. 46, fig. 115; 1869, Obs. 12: 62. Figured holotype USNM 84769 from the former locality.

- mutabilis Lea, Unio: 1859, PANSP 11: 152 (Brisbane water,
 Australia; New Zealand; Murray River, Australia); 1860

 JANSP (2) 4: 248, pl. 38, fig. 127; 1860, Obs. 7: 66.

 Lectotype BMNH 1965153 selected by Johnson, 1971, Bull.

 British Mus. Nat. Hist. 20: 89 from Brisbane water,
 figured by Reeve, 1865, Conch. Iconica, 16, Unio, pl. 24,
 species 112. It was refigured by McMichael and Hiscock,
 1958, Australian Jour. Marine and F. W. Res. 9: 449, pl.
 11, fig. 11; paralectotype USNM 85815, Ibid., pl. 11,
 figs. 8, 9; paralectotype USNM 84405 from Murray River.
- <u>myersianus</u> Lea, <u>Unio</u>: 1856, PANSP <u>8</u>: 92 (Siam); 1857, JANSP (2) <u>3</u>: 290, pl. 22, fig. 2; 1857, Obs. <u>6</u>: 10. Figured holotype USNM 83950.
- nagpoorensis Lea, Unio: 1859, PANSP 11: 331 (Ambajiri Tank, Nagpoor, Bengal; Wheatley); 1860, JANSP (2) 4: 270, pl. 45, fig. 150; 1860, Obs. 7: 88. Figured holotype ANSP 125504 mentioned as in the Wheatley colln.
 - napoensis Lea, Anodonta: 1868, PANSP 20: 162 (Napo River, Ecuador); 1868, JANSP (2) 6: 324, pl. 53, fig. 137; 1869, Obs. 12: 84. Figured holotype USNM 25429 consists of two odd valves.

- nashvillianus Lea, <u>Unio</u>: 1834, TAPS <u>5</u>: 100, pl. 14, fig. 43

 (Cumberland River [Tennessee]; Ohio [River] Louisville

 [Jefferson Co.] Kentucky); 1834, Obs. <u>1</u>: 212. Figured holotype USNM 85114 from the former locality.
- nasutilus Lea, Unio: 1863, PANSP 15: 192 (Livingston's Creek
 [N E corner of Columbus Co.], Brunswick Co., North Carolina);
 Changed to:
- <u>nasululus</u> Lea, <u>Unio</u>: 1866, JANSP (2) <u>6</u>: 12, pl. 3, fig. 9; 1867, Obs. <u>11</u>: 16. Figured holotype USNM 86027.
- nasutoides Lea, Unio: 1868, PANSP 20: 163 ([Fish-house], 6 mi. NE Camden, [Camden Co.], New Jersey; Pleistocene, teste Pilsbry, 1896 PANSP 48: 567-570). Measured type ANSP 31523. Specimen figured by Whitfield, 1885, Brach. and Lamell. Raritan Clays and Greensand Marls of N.J., p. 244, pl. 34, figs. 4, 5. Is Elliptio lanceolata (Lea).
- natalensis Lea, Spatha: 1864, PANSP 16: 113 (Umpingave River,
 Port Natal, South Africa); 1866, JANSP (2) 6: 64, pl. 20,
 fig. 58; 1867, Obs. 11: 68. Figured holotype USNM 86778.
- natalensis Lea, <u>Unio</u>: 1864, PANSP <u>16</u>: 113 (Umpingave River, Port Natal, South Africa; J. McKen); 1866, JANSP (2) <u>6</u>: 59, pl. 20, fig. 57; 1867, Obs. <u>11</u>: 63. Figured holotype ANSP 41686 from McKen mentioned as in the ANSP.

- naviculoides Lea, Unio: 1857, PANSP 9: 170 (Buckhead Creek,
 Burke Co., Georgia); 1858, JANSP (2) 4: 94, pl. 20, fig.
 74; 1858, Obs. 6: 94. Figured holotype USNM 86005.
- navigioliformis Lea, Unio: 1859, PANSP 11: 152 (Hab.? [South Africa]; Cuming); 1860, JANSP (2) 4: 248, pl. 37, fig. 124; 1860, Obs. 7: 63. Known only from the figured type, not in BMNH or USNM [lost].
 - negatus Lea, Unio: 1861, PANSP 13: 59 (Big Prairie Creek, [Hale Co.], Alabama; [Tombigbee River] Columbus [Lowndes Co.], Mississippi); 1861, JANSP (2) 5: 76, pl. 9, fig. 225; 1862, Obs. 8: 80. Figured holotype USNM 84382 from the former locality.
 - neglectus Lea, <u>Unio</u>: 1843, Desc. Twelve Uniones (North Alabama);

 1846, TAPS 9: 280, pl. 42, fig. 10; 1848, Obs. 4: 38.

 Known only from the figured holotype USNM 85701.
- neislerii Lea, <u>Unio</u>: 1858, PANSP <u>10</u>: 165 (Flint River, Lanier [was about 10 mi N Oglethorpe, Macon Co.]; Flint River, Macon [County]; <u>both Georgia</u>); 1859, JANSP (2) <u>4</u>: 212, pl. 26, fig. 93; 1859, Obs. <u>7</u>: 30. Figured holotype USNM 83993.

- newcombianus Lea, <u>Unio</u>: 1856, PANSP <u>8</u>: 103 (Lake Nicaragua, Central America); 1857, JANSP (2) <u>3</u>: 312, pl. 30, fig. 27; 1857, Obs. <u>6</u>: 32. Figured type not in the USNM; syntypes ANSP 126425 mentioned as in the Wheatley colln., 2 syntypes in the Newcomb colln., Cornell University, Ithaca, New York.
- newtoniensis Lea, Anodonta: 1838, TAPS 6: 79, pl. 21, fig. 66
 (Newtown [Newton] Creek, [Camden Co.], New Jersey [opposite]
 Philadelphia; Schuylkill [River] Fairmount [Philadelphia,
 Philadelphia Co., Pennsylvania]); 1838, Obs. 2: 79. Figured type lost, lectotype USNM 86561 selected by Johnson,
 1946, Occ. Papers on Moll., 1: 112, figured by Johnson 1970,
 Bull. Mus. Comp. Zool. 140: 361, pl. 15, fig. 4, from the
 latter locality.
- neusensis Lea, <u>Unio</u>: 1858, PANSP <u>10</u>: 41 (Neuse River, 6 mi. from [East] Raleigh [Wake Co.], North Carolina); 1861, JANSP (2) <u>5</u>: 60; 1862, Obs. <u>8</u>: 64. Figured holotype USNM 85465.
- nicaraguensis Lea, <u>Unio</u>: 1868, PANSP <u>20</u>: 95 (Lake Nicaragua, Central America); 1868, JANSP (2) <u>6</u>: 296, pl. 43, fig. 107; 1869, Obs. <u>12</u>: 56. Figured holotype USNM 84390.

- nickliniana Lea, <u>Unio</u>: 1834, TAPS <u>5</u>: 28, pl. 1, fig. 1

 (China [Moctezuma River, Central America]); 1834, Obs. <u>1</u>:

 140. Figured holotype USNM 83898 consists of a single valve.
- nigellus Lea, Unio: 1852, TAPS 10: 283, pl. 24, fig. 42
 (Chattahoochee River, near Columbus [Muscogee Co.]
 Georgia); 1852, Obs. 5: 39. Known only from the figured holotype USNM 85567.
- nigerrimus Lea, <u>Unio</u>: 1852, TAPS <u>10</u>: 268, pl. 18, fig. 23

 ([Red River] Alexandria [Rapides Parish], Louisiana);

 1852, Obs. 5: 24. Figured holotype USNM 85307.
- nigrinus Lea, <u>Unio</u>: 1852, TAPS <u>10</u>: 284, pl. 24, fig. 44

 (West Florida); 1852, Obs. <u>5</u>: 40. Known only from the figured holotype USNM 86132.
 - nitens Lea, Unio: 1840, PAPS 1: 288 (Long Creek, CockeCo.,
 Tennessee); 1842, TAPS 8: 205, pl. 12, fig. 19; 1842,
 Obs. 3: 43. Figured holotype USNM 85132.
- nocturnus Lea, <u>Unio</u>: 1860, PANSP <u>12</u>: 91 (Uruguay River, [Argentina and Uruguay]); 1863, JANSP (2) <u>5</u>: 380, pl. 42, fig. 288; 1863, Obs. 10: 16. Figured holotype USNM 85782.

- northamptonensis Lea, Unio: 1861, PANSP 13: 392 (Connecticut River, [Hampshire Co.]; [Connecticut River], Springfield, [Hampden Co.]; both Massachusetts. [Connecticut River] below Hartford, [Hartford Co.], Connecticut. Neuse River, North Carolina); 1862, JANSP (2) 5: 190, pl. 25, fig. 260; 1863, Obs. 9: 12. Figured holotype USNM 85527 from the first locality.
- notatus Lea, <u>Unio</u>: 1838, TAPS <u>6</u>: 28, pl. 8, fig. 22 (Cumberland River, [Tennessee]); 1838, Obs. <u>2</u>: 28. Figured holotype USNM 85075.
 - novieboraci Lea, <u>Unio</u>: 1838, TAPS <u>6</u>: 104, pl. 24, fig. 114

 (Oak Orchard Creek, Orleans Co., New York); 1838, Obs.

 <u>2</u>: 104. Figured holotype USNM 86042.
 - nubilus Lea, <u>Unio</u>: 1868, PANSP <u>20</u>: 161 (Paw Creek, Mecklenburg Co., North Carolina); 1868, JANSP (2) <u>6</u>: 298, pl. 44, fig. 110; 1869, Obs. <u>12</u>: 58. Figured holotype USNM 85417.
 - <u>nucleus</u> Lea, <u>Unio</u>: 1856, PANSP <u>8</u>: 94 (Siam); 1857, JANSP (2) <u>3</u>: 306; 1857, Obs. <u>6</u>: 26. Figured holotype USNM 533741.
 - nuttalliana Lea, Anodonta: 1838, TAPS <u>6</u>: 77, pl. 20, fig. 62

 (Wahlamet [Willamette River], near its junction with the Columbia River [Oregon]); 1838, Obs. <u>2</u>: 77. Figured holotype USNM 86391.

- nuttallianus Lea, <u>Unio</u>: 1856, PANSP <u>8</u>: 103 (India); 1857,

 JANSP (2) <u>3</u>: 310, pl. 30, fig. 25; 1857, Obs. <u>6</u>: 30.

 Figured holotype USNM 85201.
- nux Lea, Unio: 1852, TAPS 10: 283, pl. 24, fig. 43; 1852,
 Obs. 5: 39.(Alabama River). Figured holotype USNM 85316.
- nyassaensis Lea, <u>Spatha</u>: 1864, PANSP <u>16</u>: 109 (Lake Nyassa, Central Africa); 1866, JANSP (2) <u>6</u>: 36, pl. 13, fig. 33; 1867, Obs. <u>11</u>: 40. Known only from the figured holotype USNM 86777.
- <u>nyassaensis</u> Lea, <u>Unio</u>: 1864, PANSP <u>16</u>: 108 (Lake Nyassa, Central Africa); 1866, JANSP (2) <u>6</u>: 33, pl. 12, fig. 32; 1867, Obs. <u>11</u>: 37. Known only from the figured holotype USNM 84057.
- obesus Lea, Unio: 1831, TAPS 4: 96, pl. 13, fig. 26 (Little Ogeechee River [Hancock Co.], Georgia); 1834, Obs. 1: 106. Figured holotype USNM 85366. The type locality is discussed by Johnson, 1970, Bull. Mus. Comp. Zool. 140: 339.
- obfuscus Lea, <u>Unio</u>: 1857, PANSP <u>9</u>: 172 (Flint River, near Macon [County], Georgia); 1859, JANSP (2) <u>4</u>: 197, pl. 22, fig. 80; 1859, Obs. 7: 15. Figured holotype USNM 85089.

- oblatus Lea, Unio: 1.863, PANSP 15: 193 [as ablatus] (Long Creek, Gaston Co., North Carolina); 1866, JANSP (2) 6: 13, pl. 4, fig. 10; 1867, Obs. 11: 17. Figured holotype USNM 86001.
- oblita Lea, Anodonta: 1852, TAPS 10: 290, pl. 28, fig. 52

 (Campbell Co., East Tennessee); 1852, Obs. 5: 46. Figured holotype USNM 86536.
 - oblongus Lea, <u>Unio</u>: 1872, PANSP <u>24</u>: 158 (Irwins Creek, Mecklenburg Co., North Carolina); 1874, JANSP (2) <u>8</u>: 52, pl. 18, fig. 50; 1874, Obs. 13: 56. Figured holotype USNM 85572.
 - obnubilus Lea, <u>Unio</u>: 1857, PANSP <u>9</u>: 169 (Buckhead Creek, Burke Co., Georgia); 1858, JANSP (2) <u>4</u>: 84, pl. 17, fig. 64; 1858, Obs. <u>6</u>: 84. Figured holotype USNM 85646.
 - obscurus Lea, <u>Unio</u>: 1838, TAPS <u>6</u>: 7, pl. 3, fig. 7 (near Nashville [Davidson Co.], Tennessee); 1838, Obs. <u>2</u>: 7. Figured holotype USNM 85128.
 - obtusus Lea, <u>Unio</u>: 1840, PAPS <u>1</u>: 287 (Chattahoochee River, Columbus [Muscogee Co.], Georgia); 1842, TAPS <u>8</u>: 201, pl. 11, fig. 13; 1842, Obs. <u>3</u>: 39. Figured holotype USNM 86142.

- obuncus Lea, <u>Unio</u>: 1871, PANSP <u>23</u>: 192 (Tennessee River, Tuscumbia [Colbert Co.], Alabama; Holston River, East Tennessee); 1874, JANSP (2) <u>8</u>: 9, pl. 2, fig. 5; 1874 Obs. <u>13</u>: 13. Figured holotype USNM 84698 from the latter locality.
- occatus Lea, <u>Unio</u>: 1860, PANSP <u>12</u>: 307 (Bengal); 1863, JANSP (2) <u>6</u>: 398, pl. 50, fig. 304; 1863, Obs. <u>10</u>: 34. Figured holotype USNM 84077.
- occidens Lea, <u>Unio</u>: 1829, TAPS <u>3</u>: 435, pl. 10, fig. 16 (Ohio); 1834, Obs. <u>1</u>: 49. Figured holotype USNM 84866.
- occultus Lea, <u>Unio</u>: 1843, Desc. Twelve Uniones (Black Creek and Lake Monroe, Florida); 1846, TAPS <u>9</u>: 279, pl. 41, fig. 7; 1848, Obs. <u>4</u>: 37. Figured holotype USNM 85243 from the former locality.
- ocmulgeensis Lea, Unio: 1861, PANSP 13: 38 (Little Ocmulgee River, Lumber City, [Telfair Co.], Georgia); 1861, JANSP (2) 5: 95, pl. 14, fig. 243; 1862, Obs. 8: 99. Known only from the figured holotype USNM 85901.
- olivarius Lea, Unio: 1831, TAPS 4: 108, pl. 16, fig. 38

 (Burrell River, India; Burrough); 1834, Obs. 1: 118.

 Figured type not in the USNM or ANSP; syntypes ANSP

 41742 and 41679 mentioned as in the ANSP.

- opaca Lea, Anodonta: 1852, TAPS 10: 285, pl. 25, fig. 46

 (near New Orleans [Orleans Parish, Louisiana]; [Arkansas River], Little Rock, [Pulaski Co.], Arkansas); 1852,

 Obs. 5: 41. Figured holotype USNM 128835.
- opacus Lea, <u>Unio</u>: 1857, PANSP <u>9</u>: 169 (Buckhead Creek, Burke Co., Georgia); 1858, JANSP (2) <u>4</u>: 86, pl. 18, fig. 66; 1858, Obs. <u>6</u>: 86. Figured holotype USNM 85546.
- oregonensis Lea, Anodonta: 1838, TAPS 6: 80, pl. 21, fig. 67

 (Wahlamet [Willamette River] near its junction with the

 Columbia River, [Oregon]); 1838, Obs. 2: 80. Figured

 holotype USNM 86432.
- oregonensis Lea, <u>Unio</u>: 1852, TAPS <u>10</u>: 275, pl. 22, fig. 33

 (Columbia River, Oregon [Nicaragua, <u>teste</u> C. T. Simpson]);

 1852, Obs. <u>5</u>: 31. Figured holotype USNM 85073.
- oriens Lea, <u>Unio</u>: 1831, TAPS <u>4</u>: 73, pl. 6, fig. 5 (Ohio River); 1834, Obs. 1: 83. Figured holotype USNM 86271.
- orientalis Lea, <u>Unio</u>: 1840, PAPS <u>1</u>: 285 (Java); 1842, TAPS <u>8</u>: 221, pl. 18, fig. 38; 1842, Obs. <u>3</u>: 59. Figured holotype USNM 86058.
- ornatus Lea, <u>Unio</u>: 1861, PANSP <u>13</u>: 41 (Alabama?); 1861, JANSP (2) <u>5</u>: 85, pl. 11, fig. 234; 1862, Obs. <u>8</u>: 89. Known only from figured holotype USNM 85854.

- orontesensis Lea, <u>Unio</u>: 1863, PANSP <u>15</u>: 190 (River Orontes, Syria); 1866, JANSP (2) <u>6</u>: 53, pl. 18, fig. 50; 1866, Obs. <u>11</u>: 57. Figured holotype USNM 85535.
- orphaensis Lea, <u>Unio</u>: 1864, PANSP <u>16</u>: 285 (Tigris River, near Mardin, Pashalic of Orpha, Asiatic Turkey [Iraq]); 1868, JANSP (2) <u>6</u>: 250, pl. 29, fig. 64; 1869, Obs. <u>12</u>: 10. Figured holotype USNM 85603.
- ortonii Lea, <u>Unio</u>: 1868, PANSP <u>20</u>: 161 (River Napo, Ecuador); 1868, JANSP (2) <u>6</u>: 321, pl. 52, fig. 134; 1869, Obs. <u>12</u>: 81. Known only from the figured holotype USNM 703563 which consists of a single right valve.
- othcaloogensis Lea, <u>Unio</u>: 1857, PANSP <u>9</u>: 32 (Othcalooga [Ooth-kalooga] Creek, Gordon Co., Georgia); 1858, JANSP (2)

 <u>4</u>: 74, pl. 14, fig. 54; 1858, Obs. <u>6</u>: 74. Figured holotype USNM 84615.
- ovata Lea, Anodonta: 1838, TAPS 6: 2, pl. 2, fig. 2 (near Marietta [Washington Co.] Ohio); 1838, Obs. 2: 2.

 Figured holotype USNM 86615.
- pallescens Lea, Unio: 1845, PAPS 4: 164 ([Black Warrior River]

 Tuscaloosa [Tuscaloosa Co.], Alabama); 1848, TAPS 10: 79,
 pl. 7, fig. 20; 1848, Obs. 4: 53. Known only from the
 figured holotype USNM 84958.

- paraguayensis Lea, Unio: 1866, PANSP 18: 34 (Paraguay); 1868,
 JANSP (2) 6: 271, pl. 35, fig. 85; 1869, Obs. 12: 31.
 Known only from the figured holotype USNM 85068.
- paramattensis Lea, <u>Unio</u>: 1862, PANSP <u>14</u>: 176 (Parramatta River, [Parramatta] New South Wales, Australia); 1866, JANSP (2) <u>6</u>: 60, pl. 20, fig. 59; 1867, Obs. <u>11</u>: 64. Figured holotype USNM 84405, refigured by McMichael and Hiscock 1958, Australian Jour. Marine and F. W. Res. <u>9</u>: 450, pl. 11, figs. 6-8.
- paranensis Lea, <u>Unio</u>: 1834, TAPS <u>5</u>: 99, pl. 14, fig. 42 (River Parana [Argentina]; Burrough); 1834, Obs. <u>1</u>: 211. Figured type not in the USNM or ANSP; syntypes ANSP 41798.

- parvulus Lea, Unio: 1860, PANSP 12: 307 (Coosa River, Alabama; [Tennessee River] Chattanooga, Georgia [sic] [James Co., Tennessee]); 1866, JANSP (2) 6: 45, pl. 16, fig. 43; 1867, Obs. 11: 49. Figured holotype USNM 84139 from the latter locality.
- patelloides Lea, Unio: 1860, PANSP 12: 89 (Amazon River, Brazil;
 Rio Plata [Argentina]); 1863, JANSP (2) 5: 383, pl. 43,
 fig. 291; 1863, Obs. 10: 19. Figured holotype USNM 85780.
- pattinoides Lea, <u>Unio</u>: 1871, PANSP <u>23</u>: 193 (Clinch River [Virginia]; Holston River [Tennessee]); 1874, JANSP (2) <u>8</u>: 16, pl. 4, fig. 12; 1874, Obs. <u>13</u>: 20. Figured holotype USNM 84763 from the latter locality.
- patulus Lea, Unio: 1829, TAPS 3: 441, pl. 12, fig. 20 (Ohio);
 1834, Obs. 1: 55. Figured holotype USNM 84760; teste
 Morrison, 1943, Nautilus 57: 16.
- pauciplicatus Lea, Unio: 1872, PANSP 24: 156 ([Colorado River]
 Austin, [Travis Co.], Texas); 1874, JANSP (2) 8: 29, p1.
 9, fig. 26; 1874, Obs. 13: 33. Figured holotype USNM
 84111.

- pauperculus Lea, Unio: 1861, PANSP 13: 39 (Stream near Columbus,
 [Lowndes Co.], Mississippi); 1861, JANSP (2) 5: 99, p1.
 15, fig. 247; 1862, Obs. 8: 103. Figured holotype USNM
 85763.
- pavonia Lea, Anodonta: 1838, TAPS 6: 78, p1. 21, fig. 65

 (Headwaters of the Little Beaver [River, Lawrence Co.],
 Ohio); 1838, Obs. 2: 78. Figured holotype USNM 86514.
- pawensis Lea, Unio: 1868, PANSP 20: 161 (Paw Creek [Mecklenburg
 Co.], Beaver Co. [= Creek, Gaston Co.], Catawba Run [Gaston
 and Mecklenburg Cos.] all North Carolina); 1868, JANSP (2)
 6: 302, pl. 45, fig. 114; 1869, Obs. 12: 62. Figured
 holotype USNM 85380 labeled "Beaver Creek, [into?]
 Catawba Run, North Carolina".
- pazii Lea, Anodonta: 1866, PANSP 18: 35 (South America); 1868,
 JANSP (2) 6: 274, pl. 36, fig. 87; 1869, Obs. 12: 34.
 Figured holotype USNM 86703.
- pazii Lea, Monocondylaea: 1866, PANSP 18: 34 (South America);
 1868, JANSP (2) 6: 273, pl. 36, fig. 88; 1869, Obs. 12:
 33. Figured holotype USNM 86342.
- pazii Lea, <u>Unio</u>: 1862, PANSP <u>14</u>: 176 (China; Siam); 1866,
 JANSP (2) <u>6</u>: 61, pl. 21, fig. 60; 1867, Obs. <u>11</u>: 65.
 Figured holotype USNM 84708 from the former locality.

- peculiaris Lea, Unio: 1866, PANSP 18: 33 (South America);
 1868, JANSP (2) 6: 265, pl. 34, fig. 80; 1869, Obs. 12:
 25. Figured holotype USNM 85190.
- pellucidus Lea, <u>Unio</u>: 1845, PAPS <u>4</u>: 163 (Chattahoochee River, Georgia; Le Conte); 1848, TAPS <u>10</u>: 70, pl. 2, fig. 6; 1848, Obs. <u>4</u>: 44. Known only from the figured holotype ANSP 56493 from Le Conte.
- penicillatus Lea, <u>Unio</u>: 1857, PANSP <u>9</u>: 171 (Chattahoochee River, near Columbus [Muscogee Co.]; Chattahoochee River, near Atlanta [De Kalb Co.]; Flint River, near Albany [Dougherty Co.], <u>all</u> Georgia); 1859, JANSP (2) <u>4</u>: 203, pl. 23, fig. 85; 1859, Obs. <u>7</u>: 21. Figured holotype USNM 84142 from the third locality.
- pepinianus Lea, Anodonta: 1838, TAPS 6: 96, pl. 16, fig. 51
 (Lake Pepin, Portage Co., Ohio); 1838, Obs. 2: 96. Figured holotype USNM 86440.

- percoarctatus Lea, <u>Unio</u>: 1857, PANSP 9: 85 (Catawba River, Gaston Co., North Carolina); 1861, JANSP (2) <u>5</u>: 59, pl. 3, fig. 206; 1862, Obs. <u>8</u>: 63. Figured holotype USNM 85529.
- perdix Lea, Unio: 1834, TAPS 5: 72, pl. 11, fig. 31
 (Harpeth River, Tennessee); 1834, Obs. 1: 184.
 Figured holotype USNM 84857 marked Nashville [Davidson ...
 Co., Tennessee].
- perlatus Lea, <u>Unio</u>: 1863, PANSP <u>15</u>: 193 (Cape Fear River,

 Black Rock Landing [2 mi S Kings Bluff, Bladen Co.], North

 Carolina); 1866, JANSP (2) <u>6</u>: 15, pl. 4, fig. 13; 1867,

 Obs. 11: 19. Figured holotype USNM 86006.
- perlucens Lea, Unio: 1863, PANSP 15: 193 (Six Runs, Sampson Co.,
 North Carolina); 1866, JANSP (2) 6: 18, pl. 5, fig. 16;
 1867, Obs. 11: 22. Figured holotype USNM 85076.
- pernodosus Lea, <u>Unio</u>: 1845, PAPS <u>4</u>: 163 (North Carolina); 1848, TAPS <u>10</u>: 71, p1. 3, fig. 8, 1848; Obs. <u>4</u>: 45. Figured holotype USNM 84298.

- perpastus Lea, <u>Unio</u>: 1861, PANSP <u>13</u>: 60 (Coosa River, Alabama); 1861, JANSP (2) <u>5</u>: 69, pl. 7, fig. 219; 1862, Obs. <u>8</u>: 73. Known only from the figured holotype USNM 84960.
- perpictus Lea, Unio: 1860, PANSP 12: 306 (Bull River;
 Holston River; both Tennessee); 1860, JANSP (2) 4: 350,
 p1. 58, fig. 175; 1860, Obs. 8: 32. Figured holotype
 USNM 85034 from the former locality.
- perplexus Lea, <u>Unio</u>: 1831: TAPS <u>4</u>: 112, pl. 17, fig. 42 (Ohio); 1834, Obs. <u>1</u>: 122. Figured holotype USNM 84324.
- perpurpureus Lea, <u>Unio</u>: 1861, PANSP <u>13</u>: 41 (Tennessee); 1866, JANSP (2) <u>6</u>: 46, pl. 16, fig. 44; 1867, Obs. <u>11</u>: 50. Figured holotype USNM 85246.
- perradiatus Lea, <u>Unio</u>: 1858, PANSP <u>10</u>: 40 ([Tennessee River], Florence, [Lauderdale Co.], Alabama); 1861, JANSP (2) <u>5</u>: 66, pl. 6, fig. 215; 1862, Obs. <u>8</u>: 70. Known only from the figured holotype USNM 84501.
- perstriatus Lea, Unio: 1852, TAPS 10: 255, pl. 12, fig. 3

 (Abbeville District, [Savannah River drainage], South

 Carolina); 1852, Obs. 5: 11. Figured holotype USNM 85892.
- persulcatus Lea, Unio: 1859, PANSP 11: 153 (Mexico; Hanley);
 1860, JANSP (2) 4: 253, pl. 40, fig. 135; 1860, Obs. 7: 73.
 Known only from the figured holotype BMNH 1900.3.19.22.

- pertenuis Lea, Unio: 1863, PANSP 15: 193 (Neuse River, near
 [6 mi. E] Raleigh, [Wake Co.], North Carolina; 1866, JANSP
 (2) 6: 8, pl. 2, fig. 4; 1861, Obs. 11: 12. Figured holotype USNM 86139.
- phaselus Lea, Unio: 1856, PANSP 8: 94 (Siam); 1857, JANSP

 (2) 3: 297, pl. 26, fig. 11; 1857, Obs. 6: 17. Figured
 holotype USNM 84143.
- piceus Lea, <u>Unio</u>: 1860, PANSP <u>12</u>: 91 (Uruguay River [Argentina and Uruguay]); 1863, JANSP (2) <u>5</u>: 397, pl. 41, fig. 287; 1863, Obs. <u>10</u>: 15. Figured holotype USNM 85243.
- pictus Lea, Unio: 1834, TAPS 5: 73, pl. 11, fig. 32 (Harpeth
 River, Tennessee; Troost); 1834, Obs. 1: 185. Figured
 type in Troost colln., Rijksmuseum, Leiden, Holland [not
 found in 1961]; syntype ANSP 126139 from Troost in the
 Wheatley colln.
- piger Lea, Unio: 1860, PANSP 12: 90 (Uruguay River [Argentina
 and Uruguay]); 1863, JANSP (2) 5: 287; p1. 45 , fig. 296
 1863, Obs. 10: 23. Known only from the figured holotype
 USNM 85164.
- pilaris Lea, <u>Unio</u>: 1840, PAPS <u>1</u>: 285 (French Broad and Holston Rivers, East Tennessee); 1842, TAPS <u>8</u>: 209, pl. 14, fig. 24, 1842, Obs. <u>3</u>: 47. Figured holotype USNM 85817 from the former locality.

- pilatus Lea, <u>Unio</u>: 1866, PANSP <u>18</u>: 133 (Siam); 1868, JANSP
 (2) <u>6</u>: 281, pl. 38, fig. 95; 1869, Obs. <u>12</u>: 41. Known only from the figured holotype USNM 85195.
- pileus Lea, Unio: 1831, TAPS 4: 119, pl. 18, fig. 47 (Ohio
 River, near Cincinnati [Hamilton Co., Ohio]); 1834, Obs. 1:
 129. Figured holotype USNM 84602a.
- pinguis Lea, Unio: 1857, PANSP 9: 84 (St. Peters River, upper
 Mississippi [River system]); 1858, JANSP (2) 4: 78, p1.
 15, fig. 58; 1858, Obs. 6: 78. Known only from the
 figured holotype USNM 85008.
- placitus Lea, <u>Unio</u>: 1852, TAPS <u>10</u>: 279, pl. 23, fig. 38 (Alabama); 1852, Obs. <u>5</u>: 35. Known only from the figured holotype USNM 85152.
- Plagiodon Lea, Subgenus: 1856, PANSP 8: 79. Type species,

 Plagiodon isocardiodes Lea, by monotypy. 1857, JANSP (2)

 3: 317; 1857, Obs. 6: 37.
 - plana Lea, Anodonta: 1834, TAPS 5: 48, pl. 7, fig. 18 (Bear
 Grass Creek, near Louisville, [Jefferson Co.], Kentucky);
 1834, Obs. 1: 160. Figured holotype USNM 86626.
 - <u>planeus</u> Lea, <u>Unio</u>: 1860, PANSP <u>12</u>: 370 (Coosa River, Wetumpka [Elmore Co.], Alabama); 1861, JANSP (2) <u>5</u>: 81, pl. 10, fig. 229. Figured holotype USNM **8534**5.

- planicostatus Lea, <u>Unio</u>: 1860, PANSP <u>12</u>: 92 ([Tennessee River], Tuscumbia, [Colbert Co.], Alabama); 1860, JANSP (2) <u>4</u>: 354, pl. 59, fig. 179; 1860, Obs. <u>8</u>: 36. Figured holotype USNM 84975.
- planior Lea, Unio: 1868, PANSP 20: 145 (Tennessee; headwaters of the Holston River, Washington Co., Virginia); 1868,

 JANSP (2) 6: 316, pl. 50, fig. 129; 1869, Obs. 12: 76.

 Figured holotype USNM 84391 from the former locality.
- planulata Lea, Monocondylaea: 1859, PANSP 11: 187 (Java);
 1860, JANSP (2) 4: 262, pl. 42, fig. 142; 1860, Obs. 7:
 80. Known only from the figured holotype USNM 86351.
- plantii Lea, Unio: 1857, PANSP 9: 171 (Flint River, near Macon
 [County] Georgia); 1859, JANSP (2) 4: 192, pl. 21, fig. 76;
 1859, Obs. 7: 10. Known only from the figured holotype
 USNM 85005.
- <u>planulatus</u> Lea, <u>Unio</u>: 1829, TAPS <u>3</u>: 431, pl. 9, fig. 13 (Ohio); 1834, Obs. <u>1</u>: 45. Figured holotype USNM 86059.
- plenus Lea, Unio: 1840, PAPS 1: 286 (Ohio River, near Cincinnati [Hamilton Co.], Ohio]); 1842, TAPS 8: 211, pl. 14,
 Fig. 26; 1842, Obs. 3: 49. Figured holotype USNM 84677.
- plicatulus Lea, <u>Unio</u>: 1859, PANSP <u>11</u>: 152 (Borneo; Cuming); 1860, JANSP (2) <u>4</u>: 247, pl. 37, fig. 126; 1860, Obs. <u>7</u>: 65. Known only from the figured holotype BMNH 1965156.

- pliciferus Lea, Unio: 1838, TAPS 6: 61, pl. 17, fig. 53 (Mexico; Burrough); 1838, Obs. 2: 61. Figured type not in the USNM or ANSP; syntype USNM 84080.
 - poeyanus Lea, <u>Unio</u>: 1857 (Rio de las Balsas, near Coyucan, [Guerrera State], Mexico); 1857, JANSP (2) <u>3</u>: 315, p1. 32, fig. 30; 1857, Obs. <u>6</u>: 35. Figured holotype USNM 85894.
 - polymorpha 'Küster' Lea, Anodonta: 1870, Synopsis Unionidae, 4th edit., p. 84 [nomen nudum].
 - popeii Lea, Unio: 1857, PANSP 9: 102 (Devils River, [Valverde Co.], Texas; Rio Salado New [Nuevo] Leon [State]. Mexico); 1860, JANSP (2) 4: 372, pl. 66, fig. 197; 1860, Obs. 8: 54. Figured holotype USNM 85895 from the latter locality.
 - porphyreus Lea, <u>Unio</u>: 1861, PANSP <u>13</u>: 60 (Coosa River, Alabama); 1861; JANSP (2) <u>5</u>: 80, pl. 10, fig. 228; 1862, Obs. <u>8</u>: 84. Known only from the figured holotype USNM 84851.
 - postellii Lea, Unio: 1858, PANSP 10: 165 (Randall's Creek,
 near Columbus [Muscogee Co.]; Carter's Creek, Baldwin Co.;
 both Georgia); 1859, JANSP (2) 4: 214, pl. 26, fig. 94;
 1859, Obs. 7: 32. Figured holotype USNM 85470 from the
 latter locality.

- powellii, Lea, Unio: 1852, TAPS 10: 270, pl. 19, fig. 25
 (Saline River, Arkansas); 1852, Obs. 5: 26. Figured
 holotype USNM 85024.
- prattii Lea, <u>Unio</u>: 1858, PANSP <u>10</u>: 166 (Chattahoochee River at Roswell, Cobb Co., Georgia); 1859, JANSP (2) <u>4</u>: 206, pl. 24, figs. 88, 88a; 1859, Obs. <u>7</u>: 24. Figured type probably USNM 85145; also male syntype in the same lot.
- <u>pressus Lea, Unio</u>: 1843, PAPS <u>2</u>: 237. Substitute name for <u>Symphynota compressa</u> Lea 1829 when this species was placed in <u>Unio</u>, <u>non</u> Sowerby 1828, but <u>compressa</u> again became valid when it was placed in <u>Lasmigona</u>.
- prevostianus Lea, Unio: 1852, TAPS 10: 269, pl. 19, fig. 24

 (Eutowah River, Georgia; Wheatley); 1852, Obs. 5: 25.

 Known only from the figured type in the Wheatley colln.
 in the ANSP [lost].
- propinguus Lea, Unio: 1857, PANSP 9: 83 ([Tennessee River River],
 Florence [Lauderdale Co.]; [Tennessee River], Tuscumbia
 [Colbert Co.], both Alabama); 1861, JANSP (2) 5: 63, pl.
 5, fig. 212; 1862, Obs. 8: 67. Figured holotype USNM
 84332 from the former locality.
- proprius Lea, Unio: 1865, PANSP 17: 89 ([Dry Creek] Lafayette,
 [Walker Co.], Georgia); 1868, JANSP (2) 6: 256, pl. 31,
 fig. 70; 1869, Obs. 12: 16. Figured holotype USNM 85141.

- protensus Lea, Unio: 1865, PANSP 17: 33 (North Carolina;
 [Eno River, near Hillsboro, Orange Co., North Carolina]);
 1868, JANSP (2) 6: 256, pl. 31, fig. 71; 1869, Obs. 12:
 16. Figured holotype USNM 85994.
- prunoides Lea, Unio: 1868, PANSP 20: 150 (South America?);
 1868, JANSP (2) 6: 323, pl. 53, fig. 136; 1869, Obs. 12:
 83. Known only from the figured holotype ANSP 41791.
- pudicus Lea, Unio: 1860, PANSP 12: 92 (North Alabama;

 [Tennessee River], Florence, [Lauderdale Co.], Alabama);

 1860, JANSP (2) 4: 346, pl. 56, fig. 171; 1860, Obs. 8:
 28. Figured holotype USNM 84553 from the former locality.
- pulcher Lea, Unio: 1838, TAPS 6: 6, pl. 3, fig. 6 (near Nashville [Davidson Co.], Tennessee; Troost). 1838, Obs. 2:
 6. Figured holotype returned to Troost, not in the
 Leiden Museum, Netherlands, presumed to be MCZ 5824 Harpeth
 River, Tennessee, with Troost's label, "Mr. Lea has, I
 think, improperly made from the varieties of this two other
 species [presumably U. menkianus and interruptus]," from
 the R. E. Call colln.

- <u>pullatis Lea, Unio</u>: 1856, PANSP <u>8</u>: 262 (creeks near Columbus [Muscogee Co.], Georgia). Changed to:
- <u>pullatus</u> Lea <u>Unio</u>: 1858, JANSP (2) <u>4</u>: 57, pl. 8, fig. 39; 1858, Obs. <u>6</u>: 57. Figured holotype USNM 86020.
- pulvinulus Lea, <u>Unio</u>: 1845, PAPS <u>4</u>: 164 ([Black Warrior River],

 Tuscaloosa [Tuscaloosa Co.]; Coosawattee River, Murray Co.;

 <u>both</u> Alabama); 1848, TAPS <u>10</u>: 81, pl. 8, fig. 24; 1848,

 Obs. <u>4</u>: 55. Figured holotype USNM 84838 from the former locality.
- pumilus Lea, Unio: 1838, TAPS 6: 23, p. 7, fig. 17 (Black River,
 North Carolina. Mistakenly restricted to Black Creek of the
 Neuse River, by Johnson, 1970, Bull. Mus. Comp. Zool. 140:
 301; corrected to Black River [Cape Fear River System: South
 River drainage] on the road from Fayetteville to Smithfield
 [about 5 mi. NE Erwin and about 4 mi ESE Coats, Harnett Co.],
 North Carolina by Fuller, 1972, Nautilus 86: 72); 1838, Obs.
 2: 23. Figured holotype USNM 84545.
 - punctatus Lea, <u>Unio</u>: 1865, PANSP <u>17</u>: 89 (Caney Fork, Tennessee; [Tennessee River] Tuscumbia [Colbert Co.], Alabama; 1868, JANSP (2) <u>6</u>: 261, pl. 32, fig. 76; 1869, Obs. <u>12</u>: 21. Figured holotype USNM 84968 from the former locality.

- purpurellus Lea, Unio: 1857, PANSP 9: 171 (Flint River near
 Albany [Dougherty Co.], Georgia); 1859, JANSP (2) 4: 19,
 pl. 23, fig. 81; 1859, Obs. 7: 16. Figured holotype USNM
 85675.
- purus Lea, <u>Unio</u>: 1858, PANSP <u>10</u>: 41 (Neuse River, 6 mi. from [East] Raleigh, Wake Co., North Carolina); 1861, JANSP
 (2) <u>5</u>: 61, pl. 4, fig. 209; 1862, Obs. <u>8</u>: 65. Figured holotype USNM 85003.
- pustulatus L'ea, <u>Unio</u>: 1831, TAPS <u>4</u>: 79, pl. 7, fig. 9 (Ohio; T. G. Lea; Tennessee, Vanuxem); 1834, Obs. <u>1</u>: 89. Type [lost]; syntype USNM 84200 from the former locality.
- pustulosus Lea, <u>Unio</u>: 1831, TAPS <u>4</u>: 76, pl. 7, fig. 7 (Ohio, T. G. Lea; Alabama River, Tait); 1834, Obs. <u>1</u>: 86. Figured type [lost]; syntypes ANSP 43058 from Ohio mentioned as in the ANSP.
- pybasii Lea, Unio: 1858, PANSP 10: 40 (Tennessee River,
 Tuscumbia [Colbert Co.], Alabama); 1861, JANSP (2) 5: 67,
 pl. 6, fig. 216; 1862, Obs. 8: 71. Figured holotype
 USNM 85138.

- pygmaeus Lea, <u>Unio</u>: 1852, TAFS <u>10</u>: 262, pl. 15, fig. 14

 (Abbeville District [Savannah River drainage], South

 Carolina); 1852, Obs. <u>5</u>: 18. Known only from the figured holotype USNM 85240, which consists of a single right valve.
- pyramidatus Lea, <u>Unio</u>: 1831, TAPS <u>4</u>: 109, pl. 16, fig. 39

 (Ohio); 1834, Obs. <u>1</u>: 119. Figured holotype not in the USNM; syntypes ANSP 41726 mentioned as in the ANSP.
- pyriformis Lea, Unio: 1857, PANSP 9: 31 (near Columbus
 [Muscogee Co.], Georgia); 1858, JANSP (2) 4: 69, pl. 12,
 fig. 50; 1858, Obs. 6: 69. Figured holotype USNM 84781.
- quadrans Lea, Unio: 1860, PANSP 12: 306 (Texas, Wheatley; South
 America, teste Simpson); 1860, JANSP (2) 4: 360, pl. 61, fig.
 185; 1860, Obs. 8: 42. Known only from the figured holotype
 ANSP 125601.
- quadrata Lea, Margaritana: 1861, PANSP 13: 41 (East Tennessee);
 1862, JANSP (2) 5: 210, p1. 32, fig. 279; 1863, Obs. 9: 32.
 Figured holotype USNM 86264.
- guadratus Lea, Unio: 1859, PANSP 11: 172 (Carter's Creek;

 [Baldwin Co.]; Factory Creek near Columbus [Muscogee
 Co.]; both Georgia); 1860, JANSP (2) 4: 338, pl. 54,

 fig. 163; 1860, Obs. 8: 20. Figured holotype USNM 85718
 from the latter locality.

- guadrilaterus Lea, Unio: 1863, PANSP 15: 192 (Abbeville District
 [Savannah River drainage], South Carolina. Neuse River,
 near Raleigh [Wake Co.]; Catawba River; both North
 Carolina); 1866, JANSP (2) 5: 6, pl. 1, fig. 1; 1867,
 Obs. 11: 9. Figured holotype USNM 85385 from the second
 locality.
- radians Lea, <u>Unio</u>: 1857, PANSP <u>9</u>: 32 (Othcalooga [Oothkalooga]

 Creek, Gordon Co., Georgia); 1859, JANSP (2) <u>4</u>: 201, pl.

 23, fig. 84; 1859, Obs. <u>7</u>: 19. Figured holotype USNM 85156.
- radiolus Lea, <u>Unio</u>: 1871, PANSP <u>23</u>: 192 (Ogeechee River, Liberty Co., Georgia); 1874, JANSP (2) <u>8</u>: 21, pl. 6, fig. 18; Obs. <u>13</u>: 25. Figured holotype USNM 85621.
- <u>radiosus</u> Lea, <u>Unio</u>: 1871, PANSP <u>23</u>: 192 (Holston River, East Tennessee); 1874, JANSP (2) <u>8</u>: 13, pl. 3, fig. 9; 1874, Obs. 13: 17. Figured holotype USNM 84647.
- raditoides Lea, Unio: 1868, PANSP 20: 163 ([Fish-house], 6
 mi. NE Camden, [Camden Co.], New Jersey; Pleistocene, teste
 Pilsbry 1896, PANSP 48: 567-570). Measured type ANSP 31519.

 Specimens figured by Whitfield, 1885, Brach. and Lamell.

 Rar tan Clays and Greensand Marls of N. J., p. 245, pl.

 34, figs. 1-3. Is Lampsilis radiata (Gmelin).

- raeensis Lea, Unio: 1859, PANSP 11: 171 (Chattahoochee River, near Columbus [Muscogee Co.]; Rae's Creek [not located];

 both Georgia); 1860, JANSP (2) 4: 331, pl. 52, fig. 156
 1860, Obs. 8: 13. Figured holotype USNM 85571, from the latter locality.
- <u>rajahensis</u> Lea, <u>Unio</u>: 1841, PAPS <u>2</u>: 30 (The Rajah's Tank, Calcutta, [India]); 1842, TAPS <u>8</u>: 239, pl. 23, fig. 53; 1842, Obs. 3: 77. Figured holotype USNM 84638.
- raleighensis Lea, <u>Unio</u>: 1863, PANSP <u>15</u>: 191 (Neuse River, 6 mi E Raleigh [Wake Co.], North Carolina); 1866, JANSP (2) <u>6</u>: 6, pl. 1, fig. 2; 1867, Obs. <u>11</u>: 10. Figured holotype USNM 85592.
- rangianus Lea, <u>Unio</u>: 1838, TAPS <u>6</u>: 95, pl. 18, fig. 56 (Ohio River, near Cincinnati [Hamilton Co.]; [Mahoning River]

 near Poland, [Mahoning Co.]; <u>both</u> Ohio); 1838, Obs. <u>2</u>: 95.

 Figured holotype USNM 84798 from the latter locality.
- <u>rasus</u> Lea, <u>Unio</u>: 1863, PANSP <u>15</u>: 189 (Assyria); 1866, JANSP

 (2) <u>6</u>: 50, pl. 17, fig. 47; 1867, Obs. <u>11</u>: 54. Known only

 from the figured holotype USNM 85231.
- <u>ratus</u> Lea, <u>Unio</u>: 1872, PANSP <u>24</u>: 160 (Neuse River, North Carolina)

 1874, JANSP (2) <u>8</u>: 52, pl. 18, fig. 51; 1874, Obs. <u>13</u>: 56.

 Known only from the figured holotype USNM 85382.

- raveneliana Lea, Margaritana: 1834, TAPS 5: 106, pl. 17, fig.

 50 (French Broad and Swananoe [Swannanoa] Rivers; both

 North Carolina); 1834, Obs. 1: 218. Figured type in Lea

 or Ravenell coll'ns. Not in USNM; not in Charleston, South

 Carolina Mus. Nat. Hist. (teste, A. E. Saunders, pers. com.).
- ravenelianus Lea, <u>Unio</u>: 1834, TAPS <u>5</u>: 32, pl. 3, fig. 5 (French Broad River, tributary to the Tennessee, near Asheville [Buncombe Co.], North Carolina); 1834, Obs. <u>1</u>: 144.

 Figured holotype USNM 84783.
- recurvatus Lea, <u>Unio</u>: 1871, PANSP <u>23</u>: 192 (Tennessee River; Holston River, East Tennessee); 1874, JANSP (2) <u>8</u>: 10, pl. 2, fig. 6; 1874, Obs. <u>13</u>: 14. Figured holotype USNM 8580) from the latter locality.
- recurvirostra 'Küster' Lea, Anodonta: 1870, Synonsis Unionidae,
 4th edit., p. 84 [nomea nudum].
- reevelanus Lea, Unio: 1852, TAPS 10: 272, pl. 20, fig. 28

 ([Red River] Alexandría [Rapides Parish], Louisiana);

 1852, Obs. 5: 28. Figured holotype USNM 85025; allotype

 MCZ 178918 from Arkandas "Lea so decided from this specimen
 and another," Porcil (teste Lea).
- refulgens Lea, Unic: 1668, PANSP 20: 145 (Oktibbeha River [Enterpuise], Lauderhael Co., Mississippi); 1868, JANSP (2) 6: 317, pl. 51, fig. 130; 1869, Obs. 12: 77. Figured holocype USNM °4290.

- <u>regularis</u> Lea, <u>Unio</u>: 1841, PAPS <u>2</u>: 82 (French Broad River, East Tennessee); 1842, TAPS <u>8</u>: 243, pl. 25, fig. 59; 1842, Obs. <u>3</u>: 81. Figured holotype USNM 85067.
- rhomboidea Lea, Monocondylaea: 1859, PANSP 11: 187 (Euphrates
 River, near Bagdad [Iraq]); 1860, JANSP (2) 4: 263, pl.
 42, fig. 143; 1860, Obs. 7: 81. Figured holotype USNM
 86329 consists of two almost matching valves.
- riddellii Lea, <u>Unio</u>: 1861, PANSP <u>13</u>: 392 ([Trinity River], Dallas, [Dallas Co.], Texas); 1862, JANSP (2) <u>5</u>: 198, pl. 27, fig. 267; 1863, Obs. <u>9</u>: 20. Figured holotype USNM 84635.
- roanokensis Lea, <u>Unio</u>: 1838, TAPS <u>6</u>: 27, pl. 8, fig. 21

 (Roanoke River between Norfork and Tarborough, North

 Carolina; Altamaha River, Georgia). 1838, Obs. <u>2</u>: 27.

 Figured holotype USNM 85423 from the former locality.
 - roanokoides Lea, Unio: 1868, PANSP 20: 164 ([Fish-house], 6
 mi. NE Camden, [Camden Co.], New Jersey; Pleistocene, teste
 Pilsbry, 1896, PANSP 48: 567-570). Measured type ANSP 31520
 Specimen figured by Whitfield, 1885, Brach. and Lamell.
 Raritan Clays and Greensand Marls of N.J., p. 248, pl. 33,
 figs. 1-2, pl. 34, fig. 7. Is Elliptio complanata (Lightfood

- rostellum Lea, <u>Unio</u>: 1872, PANSP <u>24</u>: 160 (Macon [Bibb Co.], Georgia); 1874, JANSP (2) <u>8</u>: 44, pl. 15, fig. 41; 1874, Obs. <u>13</u>: 48. Figured holotype USNM 85972.
- rostraeformis Lea, <u>Unio</u>: 1856, PANSP <u>8</u>: 262 (Swift Creek, near Macon [Bibb Co.], Georgia). Changed to:
- rostriformis Lea, <u>Unio</u>: 1858, JANSP (2) <u>4</u>: 64, pl. 10, fig. 46; 1858, Obs. 6: 64. Probable figured holotype USNM 85973.
- rostrum Lea, <u>Unio</u>: 1861, PANSP <u>13</u>: 391 (Davidson Co., North Carolina); 1862, JANSP (2) <u>5</u>: 201, p1. 29, fig. 270; 1863, Obs. <u>9</u>: 23. Known only from the figured holotype USNM 85556.
- <u>roswellensis</u> Lea, <u>Unio</u>: 1858, PANSP <u>10</u>: 165 (Chattahoochee River, Roswell, Cobb Co., Georgia); 1859, JANSP (2) <u>4</u>: 205, pl. 24, fig. 87; 1859, Obs. <u>7</u>: 23. Figured holotype USNM 85467.
- rowellii Lea, Unio: 1859, PANSP 11: 153 (Chargres River,
 New Grenada [Colombia]); 1860, JANSP (2) 4: 256, p1. 40,
 fig. 136; 1860, Obs. 7: 74. Figured holotype USNM 84398.
- rubellinus Lea, <u>Unio</u>: 1857, PANSP <u>9</u>: 32 (Othcalooga [Ooth-kalooga] Creek, Gordon Co., Georgia); 1858, JANSP (2) <u>4</u>: 70, pl. 13, fig. 51; 1858, Obs. <u>6</u>: 70. Figured holotype USNM 84136.

- rubicunda Lea, Anodonta: 1860, PANSP 12: 92 (Uruguay River, [Argentina and Uruguay]); 1863, JANSP (2) 5: 392, pl. 46, fig. 299; 1863, Obs. 10: 28. Figured holotype USNM 86401.
- rubidus Lea, Unio: 1861, PANSP 13: 40 (Tombigbee River [Columbus, Lauderdale Co.], Mississippi; Coosa River and Big Prairie Creek [Hale Co.], both Alabama); 1861, JANSP (2)
 5: 95, p1. 14, fig. 244; 1862, Obs. 8: 99. Figured holotype USMM 84381 from the first lecality.
- rubiginosus Lea, <u>Unio</u>: 1829, TAPS <u>3</u>: 427, pl. 8, fig. 10

 (Ohio); 1834, Obs. <u>1</u>: 41. Figured holotype USNM 84556

 rudus Lea, <u>Unio</u>: 1859, PANSP <u>11</u>: 187 (Rio de la Plata [Argentina]); 1860, JANSP (2) <u>4</u>: 266, pl. 43, fig. 146; 1860,

 Obs. <u>7</u>: 84. Known only from the figured holotype USNM

85337.

- rufofuscus Lea, Unio: 1865, PANSP 17: 76 (Hab.? [South America]);
 1868, JANSP (2) 6: 282, pl. 39, fig. 96; 1869, Obs. 12:
 42. Known only from the figured holotype USNM 84101.
- <u>rufus</u> Lea, <u>Unio</u>: 1857, PANSP <u>9</u>: 171 (Etowah River, Cass Co., Georgia); 1858, JANSP (2) <u>4</u>: 85, pl. 17, fig. 65; 1858, Obs. <u>6</u>: 85. Figured holotype USNM 86070.
- rufusculus Lea, <u>Unio</u>: 1852, TAPS <u>10</u>: 258, pl. 14, fig. 7

 (Abbeville District [Savannah River drainage], South

 Carolina); 1852, Cbs. <u>5</u>: 14. Figured ablotype USNM 85683.

- <u>rugososulcatus</u> Lea, <u>Unio</u>: 1866, PANSP <u>18</u>: 33 (Central America); 1868, JANSP (2) <u>6</u>: 266, pl. 34, fig. 81; 1869, Obs. <u>12</u>: 26. Figured holotype USNM 84392.
- rumphianus Lea, <u>Unio</u>: 1852, TAPS <u>10</u>: 276, pl. 22, fig. 34

 (West Georgia); 1852, Obs. <u>5</u>: 32. Known only from the figured holotype USNM 84189, which consists of a single valve.
- <u>rusticus</u> Lea, <u>Unio</u>: 1856, PANSP <u>8</u>: 93 (Siam); 1857, JANSP (2) <u>3</u>: 294, pl. 25, fig. 7; 1857, Obs. <u>6</u>: 14. Figured holotype USNM 84082.
- <u>rutersvillensis</u> Lea, <u>Unio</u>: 1859, PANSP <u>11</u>: 155 ([Colorado River], Rutersville, Fayette Co., Texas); 1860; JANSP (2) <u>4</u>: 356, pl. 60, fig. 181; 1860, Obs. <u>8</u>: 38. Figured holotype USNM 85976.
- rutilans Lea, Unio: 1857, PANSP 8: 262 (Othcalooga [Oothkalooga] Creek, Gordon Co.; Columbus [Muscogee Co.]; both Georgia); 1858, JANSP (2) 4: 59, pl. 9, fig. 41; 1858, Obs. 6: 59. Figured holotype USNM 85093 from the former locality.
- <u>sagittarius</u> Lea, <u>Unio</u>: 1856, PANSP <u>8</u>: 93 (Siam); 1857, JANSP
 (2) <u>3</u>: 298, pl. 26, fig. 12; 1857, Obs. <u>6</u>: 18. Figured holotype USNM 85934.
- sagittiformis Lea, Unio: 1852, TAPS 10: 277, pl. 22, fig. 35

 (Oconee River, near Athens [Clarke Co.], Georgia); 1852,
 Obs. 5: 33. Figured holotype USNM 85970.

- saladoensis Lea, Unio: 1860, PANSP 12: 305 (Rio Salado, New
 [Nuevo] Leon [State], Mexico); 1860, JANSP (2) 4: 370,
 p1. 65, fig. 195; 1860, Obs. 8: 52. Known only from the
 figured type in the USNM [lost].
- salebrosus Lea, Unio: 1859, PANSP 11: 170 (Flat Rock Creek;
 Bull Creek; Chattahoochee River; all near Columbus
 [Muscogee Co.], Georgia); 1860, JANSP (2) 4: 332, pl. 52,
 fig. 157; 1860, Obs. 8: 14. Figured holotype USNM 85574
 from the first locality.
- <u>sampsonii</u> Lea, <u>Unio</u>: 1861, PANSP <u>13</u>: 392 (Wabash River, New Harmony, [Posey Co.], Indiana); 1862, JANSP (2) <u>5</u>: 192, pl. 25, fig. 261; 1863, Obs. <u>9</u>: 14. Figured holotype USNM 84802.
- santeensis Lea, Unio: 1871, PANSP 23: 193 (Santee Canal, South
 Carolina; Oconee River, Georgia); 1874, JANSP (2) 8: 20,
 pl. 6, fig. 17; 1874, Obs. 13: 24. Figured holotype USNM
 85635 from the former locality.

- sapotalensis Lea, Unio: 1841, PAPS 2: 30 (Sapotal River, near
 Tlocatalpan [Tlacatalpan, Vera Cruz State], Mexico;
 Burrough); 1842, TAPS 8: 233, pl. 21, fig. 47; 1842, Obs.
 3: 71. Known only from the figured holotype USNM 84072,
 mentioned as in the Burrough colln., not returned to the
 ANSP.
- satur Lea, Unio: 1852, TAPS 10: 205, p1. 17, fig. 19.

 ([Red River] Alexandria [Rapides Parish] Louisiana;
 Lake Calcashue near New Orleans; Louisiana; Anthony)

 1852, Obs. 5: 21. Figured holotype USNM 84505 from the
 former locality; paratype MCZ 53862 from the supposed
 later locality corrected to: Amite River, Louisiana by
 Anthony, with his label, "Mr. Lea drew up his description
 of the species partly from my specimen".
- savannanensis Lea, Unio: 1857, PANSP 9: 169 (Savannah River;

 Brantley's Mill, Washington Co.; both Georgia; Santee Canal,
 South Carolina; Sugar Creek, Mecklenburg Co., North Carolina)
 1859, JANSP (2) 4: 80, pl. 16, fig. 61; 1858, Obs. 6: 81.
 Figured holotype USNM 85404 from Savannah River.

- schoolcraftensis Lea, Unio: 1834, TAPS 5: 37, pl. 3, fig. 9

 (Fox River at Green Bay, [Brown Co., Wisconsin]; 1834,

 Obs. 1: 149. Figured type in the ANSP [lost].
- schroteriana Lea, Anodonta: 1852, TAPS 11: 292, pl. 29, fig.
 55 (Rio Negro, Brazil); 1852, Obs. 5: 48. Known only from
 the holotype USNM 86727 which consists of two odd valves.
 - scitulus Lea, Unio: 1860, PANSP 12: 93 ([Tennessee River], Tuscumbia [Colbert Co.], Alabama); 1860, JANSP (2) 4: 342, pl. 55, fig. 167; 1860, Obs. 8: 24. Figured holotype USNM 85084.
 - scobinatus Lea, <u>Unio</u>: 1856, PANSP <u>8</u>: 93 (Siam); 1857, JANSP
 (2) 3: 299, p1. 26, fig. 13; 1857, Obs. <u>6</u>: 19. Figured holotype USNM 84145
 - <u>securis Lea, Unio</u>: 1829, TAPS <u>3</u>: 437, pl. 11, fig. 17 (Ohio); 1834, Obs. <u>1</u>: 51. Figured holotype USNM 84475.
 - senegalensis Lea, Anodonta: 1859, PANSP 11: 154 (Senegal);
 1860, JANSP (2) 4: 260, pl. 41, fig. 140; 1860, Obs. 7:
 78. Figured holotype BENH 1965167.
 - shaefferiana Lea, Anodonta: 1852, TAPS 10: 288, pl. 26, fig.
 50 (Horn Lake Creek, [Shelby Co.], Tennessee); 1852,
 0bs. 5: 44. Figured holotype USNM 86685.

- shanghaiensis Lea, Unio: 1859, PANSP 11: 153 (Shanghai, China;
 Cuming); 1860, JANSP '(2) 4: 242, pl. 36, fig. 121; 1860,
 Obs. 7: 60. Figured holotype BMNH 1965171.
- shepardianus Lea, Unio: 1834, TAPS 5: 95, p1. 13, fig. 38

 ([Altamaha River] Hopeton, near Darien [McIntosh Co.]

 Georgia; Shepard) 1834, Obs. 1: 207. Figured type
 returned to Dr. Shepard [lost]; three presumed syntypes
 MCZ 155568, from Shepard.
- <u>showalterii</u> Lea, <u>Anodonta</u>: 1860, PANSP <u>12</u>: 307 (Coosa River, Wetumpka [Elmore Co.], Alabama); 1862, JANSP (2) <u>5</u>: 215, pl. 33, fig. 284; 1863, Obs. <u>9</u>: 37. Figured holotype USNM 86487.
- showalterii Lea, Unio: 1860, PANSP 12: 307 (Coosa River,
 Wetumpka [Elmore Co.], Alabama); 1861, JANSP (2) 5: 73,
 pl. 8, fig. 223; 1862, Obs. 8: 77. Figured holotype
 USNM 85748.

- shuttleworthii Lea, Unio: 1856, PANSP 8: 94 (Australia); 1857,

 JANSP (2) 3: 304, pl. 28, fig. 19; 1857, Obs. 6: 24.

 Figured holotype USNM 84416 refigured by McMichael and

 Hiscock, 1958, Australian Jour. Marine and F. W. Res. 9:

 415, pl. 6, figs. 1, 2 and the type locality restricted to

 South Queensland. Non Küster 1855, changed to Alathyra

 pertexa Iredale, 1934, Australian Zool. 8: 64, pl. 3,

 fig. 10; pl. 4, fig. 10.
- <u>siamensis</u> Lea, <u>Unio</u>: 1866, PANSP <u>18</u>: 133 (Siam); 1868, JANSP (2) 6: 279, pl. 38, i g. 93; 1869, Obs. <u>12</u>: 39. Figured holotype USNM 85893.
- <u>sikkimensis</u> Lea, <u>Unio</u>: 1859, PANSP <u>11</u>: 151 (Sikkim, India; Cuming); 1860, JANSP (2) <u>4</u>: 251, pl. 39, fig. 131; 1860, Obs. <u>7</u>: 69. Figured holotype BMNH 1965177.
- similis Lea, Unio: 1857, PANSP 9: 169 (Buckhead Creek, Burke Co.,
 Georgia); 1850, JANSP (2) 4: 91, pl. 19, fig. 71; 1858,
 Obs. 6: 91. Figured holotype USNM 85653.
- simplex Lea, Unio: 1845, PAPS 4: 163 (Black Warrior River,
 Alabama); 1848, TAPS 10: 76, pl. 5, fig. 15; 1848, Obs.
 4: 50. Figured holotype USNM 84951.
- simpsoniana Lea, Anodonta: 1831, PANSP 13: 56 (Fort Rae, Great Slave Lake [District of Mackenzie, Canada]; 1862, JANSP (2) 5: 212, pl. 32, fig. 281; 1863, Obs. 9: 34. Known only from the figured holotype USNM 86434.

- simulans Lea, Unio: 1871, PANSP 23: 190 (Cahawba River, Shelby
 Co., Alabama); 1874, JANSP (2) 8: 18, pl. 5, fig. 15;
 1874, Obs. 13: 22. Figured holotype USNM 84840.
- <u>simus</u> Lea, <u>Unio</u>: 1838, TAPS <u>6</u>: 26, pl. 8, fig. 20 (Cumberland River, Tennessee); 1838, Obs. <u>2</u>: 26. Figured holotype USNM 85342.
- <u>sloatianus</u> Lea, <u>Unio</u>: 1840, PAPS <u>1</u>: 287, (Chattahoochee River, Georgia, restricted to Columbus [Muscogee Co.], by Clench and Turner 1956, Bull. Fla. State Mus. <u>1</u>: 173); 1842, TAPS <u>8</u>: 217, pl. 16, fig. 33; 1842, Obs. <u>3</u>: 55. Figured holotype returned to Jay, AMNH 56104.
- <u>soleniformis</u> Lea, <u>Unio</u>: 1831, TAPS <u>4</u>: 87, pl. 10, fig. 17 (Ohio; T. G. Lea); 1834, Obs. <u>1</u>: 97. Type [lost].
- sordidis Lea, Unio: 1852, TAPS 10: 254, p1. 12, fig. 1 (Abbeville District [Savannah River drainage], South Carolina);
 1852, Obs. 5: 10. Figured holotype USNM 85688.
- sowerbianus Lea, Unio: 1834, TAPS 5: 68, pl. 10, fig. 28

 (Tennessee; G. B. Sowerby); 1834, Obs. 1: 180, type [lost];
 4 specimens subsequently identified by Lea MCZ 178886
 from Caney Fork of the Cumberland River, Tennessee.

- spadiceus Lea, Unio: 1857, PANSP 9: 86 (Deep River, Gulf
 [Chatham Co.]; mountain streams; both North Carolina);
 1861, JANSP (2) 5: 55, pl. 1, fig. 201; 1862, Obs. 8:
 59. Figured holotype USNM 85251 from the latter locality.
- sparsus Lea, Unio: 1841, PAPS 2: 82 (Holston River, East
 Tennessee); 1842, TAPS 8: 242, pl. 25, fig. 58, 1842,
 Obs. 3: 80. Figured holotype USNM 84222
- sparus Lea, Unio: 1868, PANSP 20: 143 (Swamp Creek, Whitfield
 Co., Georgia); 1869, JANSP (2) o: 306, pl. 47, fig. 119;
 1869, Obs. 12: 66. Figured holotype USNM 85082.
- speciosus Lea, Unio: 1862, PANSP 14: 168 (Colorado River, near
 Lagrange, [Fayette Co.]; Leon Co.; both Texas); 1862,
 JANSP (2) 5: 207, pl. 31, fig. 276; 1863, Obs. 9: 29.
 Figured holotype USNM 84172.
- sphaevicus Lea, Unio: 1868, PANSP 20: 145 (Pearl River,
 Jackson [Hinds Co.], Mississippi); 1868, JANSP (2) 6:
 319, pl. 51, fig. 132; 1869, Obs. 12: 79. Figured
 holotype USNM 84271.

- spillmanii Lea, Margaritana: 1858, PANSP 10: 138 ([Magbys Creek,
 not located, written in shell] of the Tombigbee River, near
 Columbus [Lowndes Co.], Mississippi); 1861, JANSP (2) 5:
 105, pl. 17, fig. 252; 1862, Obs. 8: 109. Figured holotype
 USNM 86278.
- spillmanii Lea, <u>Unio</u>: 1861, PANSP <u>13</u>: 39 (Luxpalila Creek, near Columbus [Lowndes Co.], Mississippi); 1861, JANSP (2) <u>5</u>: 98, pl. 15, fig. 246; 1862, Obs. <u>8</u>: 102. Figured holotype USNM 84825.
- spinosus Lea, <u>Unio</u>: 1836, Description of a new <u>Unio</u>, pp. 1-4 (Col. figs.); 1838, TAPS <u>6</u>: 57, pl. 16, fig. 50 (Altamaha [River], Hopeton, near Darien [McIntosh Co.], Shepard; Altamaha River, Liberty [now Long] Co., LeConte; <u>both</u> Georgia); 1838, Obs. <u>2</u>: 57. Figured type returned to Shepard [lost]; syntypes ANSP 41400 from LeConte and ANSP 129763 from Lea.
- spissus Lea, Unio: 1859, PANSP 11: 112 (Satilla River, Wayne
 Co., Georgia); 1859, JANSP (2) 4: 208, pl. 25, fig. 89
 1859, Obs. 7: 26. Figured holotype USNM 84853.

- splendidus Lea, Unio: 1838, TAPS 6: 70, pl. 19, fig. 61
 (Altamaha [River], near Darien [McIntosh Co.]; Altamaha
 River, Liberty [now Long] Co.; both Georgia); 1838, Obs.
 2: 70. Figured holotype USNM 84893 from the latter
 locality.
- squalidus Lea, Unio: 1863, PANSP 15: 192 (Neuse River, near
 [6 mi E] Raleigh [Wake Co.]; Roanoke River, near Weldon
 [Halifax Co.]; Deep River; all North Carolina); 1866,
 JANSP (2) 6: 22, pl. 7, fig. 20; 1867, Obs. 11: 26.
 Figured holotype USNM 85376, from the second locality.
- <u>squameus</u> Lea, <u>Unio</u>: 1861, PANSP <u>13</u>: 391 (North Carolina); 1862, JANSP (2) <u>5</u>: 200, pl. 28, fig. 269; 1863, Obs. <u>9</u>: 22. Figured holotype USNM 85530.
- stabilis Lea, Unio: 1861, PANSP 13: 59 (Coosa River, Alabama);
 1861, JANSP (2) 5: 71, pl. 8, fig. 221; 1862, Obs. 8: 75.
 Figured holotype USNM 84639.
- <u>stapes</u> Lea, <u>Unio</u>: 1831, TAPS <u>4</u>: 77, pl. 7, fig. 8 (Alabama River); 1834, Obs. <u>1</u>: 87. Figured holotype USNM 84218.

- - stewartiana Lea, Anodonta: 1834, TAPS 5: 47, pl. 6, fig. 17
 (River Teche, [St. Landry Parish], Louisiana); 1834, Obs.
 1: 159. Figured holotype USNM 86664.
 - stewardsonii Lea, Unio: 1852, TAPS 10: 278, pl. 23, fig. 36
 (Chatanooga River, Tennessee); 1852, Obs. 5: 34. Known only from the figured holotype ANSP 56572; 2 subsequently identified specimens USNM 84605.
 - stonensis Lea, Unio: 1840, PAPS 1: 286 (Stones River, Tennessee);
 1842, TAPS 8: 195, pl. 8, fig. 5; 1842, Obs. 3: 33.
 Figured holotype USNM 84969, probably Roanoke River,
 Virginia; teste Simpson.
 - strebelii Lea, Anodonta: 1868, PANSP 20: 150 [Rio Medellin]

 Vera Cruz [Vera Cruz State] Mexico); 1868, JANSP (2) 6:

 322, pl. 52, fig. 135; 1869, Obs. 12: 82. Known only from
 the figured holotype USNM 25433.

- strebelii Lea, Unio: 1866, PANSP 18: 133 ([Rio Medellin]

 Vera Cruz, [Vera Cruz State], Mexico); 1868, JANSP (2)
 6: 318, pl. 51, fig. 131; 1869, Obs. 12: 73. Figured
 holotype USNM 85661.
- striatulus Lea, Unio: 1857, PANSP 9: 86 (Roanoke River, Weldon
 [Halifax Co.], North Carolina; 1861, JANSP (2) 5: 55,
 pl. 2, fig. 202; 1862, Obs. 8: 59. Figured holotype
 USNM 84548.
 - <u>striatus</u> Lea, <u>Unio</u>: 1840, PAPS <u>1</u>: 287 (Chattahoochee River, Columbus [Muscogee Co.], Georgia); 1842, TAPS <u>8</u>: 203, pl. 12, fig. 16; 1842, Obs. <u>3</u>: 41. Figured holotype USNM 84797.
 - strigosus Lea, Unio: 1840, PAPS 1: 287 (Chattahoochee River,
 Columbus [Muscogee Co.], Georgia); 1842, TAPS 8: 198,
 pl. 9, fig. 9; 1842, Obs. 3: 36. Figured holotype USNM
 85890.
- strumosus Lea, Unio: 1872, PANSP 24: 158 (Yadkin River, North
 Carolina); 1874, JANSP (2) 8: 57, pl. 19, fig. 55; 1874,
 Obs. 13: 61. Figured holotype USNM 85755.
- suavidicus Lea, Unio: 1856, PANSP 8: 95 (Amazon River [Brazil]);
 1857, JANSP (2) 3: 309, pl. 29, fig. 24; 1857, Obs. 6:
 29. Known only from the figured holotype USNM 85727.

- <u>subangulatus</u> Lea, <u>Unio</u>: 1840, PAPS <u>1</u>: 287 (Chattahoochee River, Columbus [Muscogee Co.], Georgia); 1842, TAPS <u>8</u>: 209, pl. 13, fig. 23; 1842, Obs. <u>3</u>: 47. Lectotype USNM 85081 selected by Clench and Turner, 1956, Bull. Florida State Mus. 1: 197.
- <u>subcrassa</u> Lea, <u>Anodonta</u>: 1850, Proc. Zool. Soc. London, p. 198 (Laguna de Bai, Luzon, Philippine Islands); 1860, JANSP (2) 4: 236, pl. 33, fig. 115; 1860, Obs. 7: 54. Figured holotype USNM 86693.
- <u>subcylindracea</u> Lea, <u>Anodonta</u>: 1838, TAPS <u>6</u>: 106, pl. 24, fig.
 117 (Oak Orchard Creek, Orleans Co., New York); 1838,
 Obs. <u>2</u>: 106. Figured type lost. Mentioned as in the Lea and Jay collns., but not found in the USNM or AMNH.
 Specimen identified by Lea ANSP 126680.
 - subcylindraceus Lea, <u>Unio</u>: 1874, PANSP for 1873, <u>25</u>: 422

 (Rocky Creek, near Macon [Bibb Co.]; Carter's Creek,

 [Baldwin Co.]; <u>both</u> Georgia); 1884, JANSP (2) <u>8</u>: 58, pl.

 20, fig. 57; 1874, Obs. <u>13</u>: 62. Figured holotype USNM

 85863 from the former locality.
- subellipsis Lea, Unio: 1856, PANSP 8: 262 (creeks near
 Columbus [Muscogee Co.], Georgia); 1858, JANSP (2) 4:
 62, pl. 10, fig. 44; 1858, Obs. 6: 62. Figured holotype
 USNM 85095.

- <u>subflavus</u> Lea, <u>Unio</u>: 1857, PANSP <u>9</u>: 170 (Walnut Creek, above Macon [Bibb Co.], Georgia); 1858, JANSP (2) <u>4</u>: 90, pl. 19, fig. 70; 1858, Obs. 6: 90. Figured holotype USNM 85562.
- subgibbosus Lea, Unio: 1857, PANSP 9: 169 (Ostanaula River,
 Floyd Co.; Etowah River; both Georgia. Red River,
 Arkansas); 1858, JANSP (2) 4: 53, pl. 6, fig. 36; 1858,
 Obs. 6: 53. Figured holotype USNM 86101 from the first
 locality.
- subglobatus Lea, Unio: 1871, PANSP 23: 191 ([Tennessee River]
 Florence [Lauderdale Co.], Alabama); 1874, JANSP (2) 8:
 7, pl. 1, fig. 3; 1874, Obs. 13: 11. Figured holotype
 USNM 85823.
- subglobosus Lea, Unio: 1834, TAPS 5: 30, p1. 2, fig. 3
 (Bayou Teche, [St. Landry Parish] Louisiana); 1834,
 Obs. 1: 142. Figured holotype USNM 159969.
- <u>sublatus</u> Lea, <u>Unio</u>: 1857, PANSP <u>9</u>: 169 ([Chattahoochee River]

 Uchee Bar, below Columbus [Muscogee Co.], Georgia); 1858,

 JANSP (2) <u>4</u>: 82, pl. 16, fig. 62. 1858, Obs. <u>6</u>: 82.

 Figured holotype USNM 85897.
 - subniger Lea, Unio: PANSP 9: 172 (Flint River, near Macon
 [County], Georgia); 1859, JANSP (2) 4: 196, p. 22, fig.
 79; 1859, Obs. 7: 14. Figured holotype USNM 85560.

- subolivaceus Lea, Unio: 1874, PANSP for 1873, 25: 422 (Catawba,
 Fox [not located] and Yadkin Rivers; all North Carolina);
 1874, JANSP (2) 8: 57, pl. 20, fig. 56; 1874, Obs. 13:
 61. Figured holotype USNM 85564, from the Fox River.
- <u>subparallelus</u> Lea, <u>Unio</u>: 1872, PANSP <u>24</u>: 158 (Irwins Creek [Mecklenburg Co.] and Fox River [not located]; <u>both</u>
 North Carolina); 1874, JANSP (2) <u>8</u>: 46, pl. 16, fig. 44;
 1874, Obs. <u>13</u>: 50. Figured holotype USNM 85418.
- <u>subrotundoides</u> Lea, <u>Unio</u>: 1868, PANSP <u>20</u>: 163 ([Fish-house], 6 mi. NE Camden, [Camden Co.], New Jersey; Pleistocene, <u>teste</u> Pilsbry, 1896, PANSP <u>48</u>: 567-570. Measured holotype ANSP 31524, figured by Whitfield, 1885, Brach. and Lamell. Raritan Clays and Greensand Marls of N. J., p. 246, pl. 32, fig. 5. Is <u>Quadrula subrotunda</u> (Lea).
- subrotundus Lea, Unio: 1831, TAPS 4: 117, pl. 18, fig. 45

 (Ohio); 1834, Obs. 1: 127. Figured holotype USNM 85832.
 subsquamosus Lea, Unio: 1872, PANSP 24: 160 (Yadkin River,
 North Carolina); 1874, JANSP (2) 8: 47, pl. 16, fig. 45;
 1874, Obs. 13: 51. Figured holotype USNM 85557.

- substriatus Lea, <u>Unio</u>: 1856, PANSP <u>8</u>: 93 (Siam); 1857, JANSP (2) <u>3</u>: 300, pl. 26, fig. 14; 1857, Obs. <u>6</u>: 20. Known only from the figured holotype USNM 85199 which consists of, almost matching, opposed valves.
- <u>succissus</u> Lea, Unio: 1852, TAPS <u>10</u>: 275, pl. 21, fig. 32 (West Florida; Le Conte. Type locality restricted to Choctawhatchee River, Caryville, Holmes Co., Florida, by Clench and Turner, 1956, Bull. Florida State Mus. <u>1</u>: 151); 1852, Obs. 5: 31. Figured holotype USNM 84574.
- sudus Lea, Unio: 1857, PANSP 9: 170 (Dry Creek, near Columbus
 [Muscogee Co.]; Macon [Bibb Co.]; both Georgia); 1859,

 JANSP (2) 4: 194, pl. 21, fig. 77; 1859, Obs. 7: 12.

 Figured holotype USNM 85155 from the former locality.
- <u>sulcatus</u> Lea, <u>Unio</u>: 1829, TAPS <u>3</u>: 430, pl. 8, fig. 2 (Ohio) 1834, Obs. 1: 44. Figured holotype USNM 84803.
- <u>sumatrensis</u> Lea, <u>Unio</u>: 1859, PANSP <u>11</u>: 153 (Sumatra); 1860,

 JANSP (2) <u>4</u>: 239, pl. 34, fig. 118; 1860, Obs. <u>7</u>: 57.

 Non <u>Unio sumatrensis</u> Dunker 1852 changed by Lea to <u>Unio</u>

 <u>dimotus</u> 1870, Synopsis, 4th edit., p. 30. Figured holotype

 USNM 84059.
 - superbus Lea, Unio: 1843, Desc. Twelve Uniones (New Holland
 [Australia]); 1846, TAPS 9: 281, p1. 42, fig. 11; 1848,
 Obs. 4: 39. Figured holotype USNA 83934.

- symmetricus Lea, <u>Unio</u>: 1845, PAPS <u>4</u>: 164 ([Red River] Alexandria [Rapides Parish], Louisiana); 1848, TAPS <u>10</u>: 73, pl. 4, fig. 11; 1848, Obs. <u>4</u>: 47. Figured holotype USNM 85604.
- <u>Symphynota</u> Lea, Genus: 1829, TAPS <u>3</u>: 424. Type species: <u>Unio</u>

 <u>alata</u> Say, original designation. 1834, Obs. <u>1</u>: 38; 1829,

 TAPS <u>3</u>: 442, 1834, Obs. <u>1</u>: 56.
- syriacus Lea, <u>Unio</u>: 1863, PANSP <u>15</u>: 189 (River Orontes, Syria);
 1866, JANSP (2) <u>6</u>: 56, pl. 19, fig. 53; 1867, Obs. <u>11</u>:
 60. Known only from the figured holotype USNM 84408.
- <u>taitianus</u> Lea, <u>Unio</u>: 1834, TAPS <u>5</u>: 39, pl. 4, fig. 11 (Alabama River [Claiborne, Monroe Co., Alabama]); 1834, Obs. <u>1</u>: 151. Figured holotype USNM 84653.
- tampicoensis Lea, Unio: 1838, TAPS 6: 24, pl. 7, fig. 18

 (River Tampico, Mexico; River Medellin, 10 mi. S of Vera

 Cruz [State of Vera Cruz]; Mexico; Burrough); 1838, Obs.

 2: 24. Figured holotype USNM 84843 from the former locality.
- tappanianus Lea, <u>Unio</u>: 1838, TAPS <u>6</u>: 62, pl. 17, fig. 55

 ([Frankstown Branch] Juniata River near Hollidaysburg

 [Blair Co.]; Schuylkill [River]; and a small stream near

 Lancaster [Lancaster Co.]; <u>all</u> Pennsylvania); 1831, Obs. <u>2</u>: 62.

 Figured holotype USNM 86133 from the first locality.

- tecomatensis Lea, <u>Unio</u>: 1841, PAPS <u>2</u>: 30 (Tecomate River, near Tlocatalpam [Tlacatalpan, Vera Cruz State], Mexico); 1842, TAPS <u>8</u>: 234, pl. 21, fig. 48; 1842, Obs. <u>3</u>: 72. Figured holotype USNM 85338.
- <u>tellicoensis</u> Lea, <u>Unio</u>: 1872, PANSP <u>24</u>: 155 (Tellico River, Monroe Co., East Tennessee; East Tennessee); 1874, JANSP (2) <u>8</u>: 31, pl. 10, fig. 28; 1874, Obs. <u>13</u>: 35. Figured holotype USNM 84576.
- tenebricosa Lea, Anodonta: 1834, TAPS 5: 78, pl. 12, fig. 36

 (Parana River, South America); 1834, Obs. 1: 190. Figured holotype USNM 86761.
 - <u>tenebricus</u> Lea, <u>Unio</u>: 1857, PANSP <u>9</u>: 171 (Etowah River, Georgia); 1858, JANSP (2) <u>4</u>: 83, pl. 17, fig. 63; 1858, Obs. <u>6</u>: 83. Figured holotype USNM 85143.
 - tener Lea, Unio: 1840, PAPS 1: 286 (Big Pigeon River, Tennessee);
 1842, TAPS 8: 198, pl. 10, fig. 10; 1842, Obs. 3: 36.
 Known only from the figured holotype USNM 85026.
 - tennesseensis Lea, <u>Unio</u>: 1840, PAPS <u>1</u>: 288 (Stone's River, near Nashville [Davidson Co.], Tennessee); 1842, TAPS <u>8</u>: 199, pl. 10, fig. 11; 1842, Obs. <u>3</u>: 37. Known only from the figured holotype USNM 84961.

- tenuis Lea, Anodonta: 1850, Proc. Zool. Soc. London, p. 198
 (Sual, Luzon, Philippine Islands; Cuming); 1860, JANSP
 (2) 4: 237, pl. 33, fig. 116; 1860, Obs. 7: 55. Figured type not in the BMNH [lost]; syntypes BMNH 1968654 and USNM 86764.
- <u>tenuissima</u> Lea, <u>Symphynota</u>: 1829, TAPS <u>3</u>: 453, pl. 11, fig. 21 (Ohio, T. G. Lea); 1834, Obs. <u>1</u>: 67. Type [lost].
- <u>tesserulae</u>, Lea, <u>Unio</u>: 1861, PANSP <u>13</u>: 392 (Nolachucky River, Tennessee); 1866, JANSP (2) <u>6</u>: 40, pl. 15, fig. 39; 1867, Obs. <u>11</u>: 44. Known only from the figured holotype USNM 84426.
- tetragona Lea, Anodonta: 1845, PAPS 4: 165 ([Red River] Alexandria [Rapides Parish], Louisiana); 1848, TAPS 10: 82, p1. 8, fig. 48; 1848, Obs. 4: 56. Figured holotype USNM 86682.
- <u>tetricus</u> Lea, <u>Unio</u>: 1857, PANSP <u>9</u>: 170 (Flint River, near Albany [Dougherty Co.], Georgia); 1859, JANSP (2) <u>4</u>: 195, pl. 22, fig. 78; 1859, Obs. <u>7</u>: 13. Figured holotype USNM 85655.
- <u>texasensis</u> Lea, <u>Anodonta</u>: 1859, PANSP <u>11</u>: 113 (Texas); 1860,

 JANSP (2) <u>4</u>: 366, pl. 63, fig. 191; 1860, Obs. <u>8</u>: 48.

 Known only from the figured holotype USNM 86680.
- <u>texasensis</u> Lea, <u>Unio</u>: 1857, PANSP <u>9</u>: 84 ([Guadalupe River]

 Dewitt Co., Texas); 1860, JANSP (2) <u>4</u>: 359, pl. 61, fig.

 184; 1860, Obs. <u>8</u>: 41. Figured holotype USNM 85302.

- thorntonii Lea, <u>Unio</u>: 1857, PANSP <u>9</u>: 83 ([Tennessee River]

 Tuscumbia [Colbert Co.], Alabama); 1866, JANSP (2) <u>6</u>:

 38, pl. 14, fig. 36; 1867, Obs. <u>11</u>: 42. Known only from the figured holotype USNM 85829.
- <u>thwaitesii</u> Lea, <u>Unio</u>: 1859, PANSP <u>11</u>: 152 (Ceylon; Cuming); 1860, JANSP (2) <u>4</u>: 264, pl. 37, fig. 125; 1860, Obs. <u>7</u>:
- 64. Known only from the figured holotype BMNH 1965179.
- tombecbeensis Lea, <u>Margaritana</u>: 1858, PANSP <u>10</u>: 138 (Tombigbee

River, near Columbus [Lowndes Co.], Mississippi). Changed to:

- tombigbeensis Lea, Margaritana: 1861, JANSP (2) 5: 107, pl. 18,
 - fig. 255; 1862, Obs. <u>8</u>: 111. Figured holotype USNM 86253.
- topekaensis Lea, Unio: 1868, PANSP 20: 144 (]Kansas River]
 Topeka [Shawnee Co.], Kansas; Little Arkansas River;
 Rock Creek; Walnut Creek, Santa Fé Road [not located];
 Verdigris River; all Kansas. [Nemaha River], Falls
 City [Richardson Co.], Nebraska); 1868, JANSP (2) 6:
 313, pl. 49, fig. 126; 1869, Obs. 12: 73. Figured
 holotype USNM 84978 from the last locality.
- tortilis Lea, Anodonta: 1852, TAPS 10: 291, pl. 28, fig. 54 (Carthagena, Colombia); 1852, Obs. 5:47. Known only from the figured holotype USNM 86405.

- tortivus Lea, <u>Unio</u>: 1840, PAPS <u>1</u>: 287 (Chattahoochee River, Columbus Muscogee Co., Georgia); 1842, TAPS <u>8</u>: 204, pl. 12, fig. 17; 1842, Obs. <u>3</u>: 42. Supposed figured type is USNM 85674 but it does not agree exactly with the figure and is from Lee Co., Georgia [Flint River drainage].
- tortuosus Lea, <u>Unio</u>: 1865, PANSP <u>17</u>: 76 (China); 1868, JANSP (2) <u>6</u>: 286, pl. 39, fig. 98; 1869, Obs. <u>12</u>: 46. Figured holotype Buffalo [New York] Museum of Science M362J-i (1).
- trapezoides Lea, <u>Unio</u>: 1831, TAPS <u>4</u>: 69, pl. 3, fig. 1

 (Lake St. Joseph [Tensas Parish] Louisiana); 1834, Obs.

 1: 79. Figured holotype USNM 84103.
- <u>trautwiniana</u> Lea, <u>Anodonta</u>: 1852, TAPS <u>10</u>: 287, p1. 26, fig. 48 (Carthagena, Colombia); 1852, Obs. <u>5</u>: 43. Figured holotype USNM 86684.
 - triangulata Lea, Margaritana: 1858, PANSP 10: 138 (Upper Chattahoochee River; Chattahoochee River, Columbus [Muscogee Co.]; Polato Co. [sic], Potato Creek, [Upson Co.]; all Georgia. Sawney's Creek [about 8 mi NW Camden, Kershaw Co.], South Carolina); 1859, JANSP (2) 4: 228, pl. 32, fig. 111; 1859, Obs. 7: 46. Figured holotype USNM 86249 from the first locality.

- trifidus Lea, <u>Unio</u>: 1860, PANSP <u>12</u>: 89 (Buenos Aires, Argentina); 1863, JANSP (2) <u>5</u>: 386, pl. 44, fig. 295; 1863, Obs. <u>10</u>: 22. Known only from the figured holotype USNM 85352.
- trigonus Lea, <u>Unio</u>: 1831, TAPS <u>4</u>: 110, pl. 16, fig. 40 (Ohio River, Cincinnati [Hamilton Co.], Ohio; Ohio River,

 Louisville [Jefferson Co.], Kentucky]; 1831, Obs. <u>1</u>: 120.

 Figured holotype USNM 86429 from the former locality.
- <u>trinacrus</u> Lea, <u>Unio</u>: 1861, PANSP <u>13</u>: 59 (Coosa River, Alabama); 1861, JANSP (2) <u>5</u>: 86, pl. 12, fig. 235; 1862, Obs. <u>8</u>: 90. Known only from the figured holotype USNM 84445.
- <u>tripartitus</u> Lea, <u>Unio</u>: 1863, PANSP <u>15</u>: 190 (Jillingee River, India); 1866, JANSP (2) <u>6</u>: 57, pl. 19, fig. 55; 1867, Obs. <u>11</u>: 61. Figured holotype USNM 84397.
- troostensis Lea, <u>Unio</u>: 1834, TAPS <u>5</u>: 71, pl. 10, fig. 30 (Cumberland River [Tennessee]); 1834, Obs. <u>1</u>: 183. Figured holotype USNM 84701.
- troostii Lea, <u>Unio</u>: 1870, Synopsis Unionidae, 4th edit., p. 39.

 Substitute name for Unio troostensis Lea 1834.
- <u>troschelianus</u> Lea, <u>Unio</u>: 1852, TAPS <u>10</u>: 280, p1. 23, fig. 39 (Coosawattee River, Murray Co., Georgia); 1852, Obs. <u>5</u>: **3**6. Figured holotype USNM 84790.

- trosculus Lea, <u>Unio</u>: 1843, Desc. Twelve Uniones (Lake Monroe, Florida). Changed to:
- <u>trossulus</u> Lea, <u>Unio</u>: 1846, TAPS <u>9</u>: 278, pl. 40, fig. 6; 1848, Obs. 4: 36. Figured holotype USNM 84705.
- tryonii Lea, Anodonta: 1862, PANSP 14: 169 (Schuylkill River above Philadelphia; Delaware River at League Island

 [both Philadelphia Co., Pennsylvania]; Flemington

 [= Farmington, Hartford Cc.], Connecticut; Westfield

 [Hampden Co.], Massachusetts; Potomac River near Chain

 Bridge, above Washington, D. C.); 1866, JANSP (2) 6: 28,

 pl. 10, fig. 27; 1867, Obs. 11: 32. Figured holotype USNM

 86572 from the Delaware River.
- tuberosus Lea, Unio: 1840, PAFS 1: 286 (Caney Fork [of the
 Cumberland River] and Cumberland Rivers, Middle Tennessee);
 1842, TAPS 8: 210, pl. 14, fig. 25; 1842, Obs. 3: 48.
 Figured holotype USNM 84219.
- tumescens Lea, Unio: 1845, PAPS 4: 164 ([Red River] Alexandria [Rapides Parish], Louisiana); 1848, TAPS 10: 71, pl. 3, fig. 7; 1848, Obs. 4: 45. Figured holotype USNM 84646.
- <u>tumidulus</u> Lea, <u>Unio</u>: 1856, PANSP <u>8</u>: 93 (Siam); 1857, JANSP

 (2) <u>3</u>: 295, pl. 25, fig. 9; 1857, Obs. <u>6</u>: 15. Figured holotype USNM **84712**.

- tuomeyi Lea, Unio: 1852, TAPS 10: 256, pl. 13, fig. 4 (Abbeville District [Savannah River drainage], South Carolina); 1852, Obs. 5: 12. Figured holotype USNM 85669.
- turgidulus Lea, Unio: 1858, PANSP 10: 40 (Cumberland River, Tennessee; [Tennessee River], Florence [Lauderdale Co.], Alabama); 1861, JANSP (2) 5: 62, pl. 5, fig. 211; 1862, Obs. 8: 66. Figured holotype USNM 84946 from the former locality.
- turgidus Lea, Unio: 1838, TAPS 6: 11, pl. 5, fig. 11 (near
 New Orleans, [Orleans Parish, Louisiana]); 1838, Obs.
 2: 11. Figured holotype USNM 84277.
- tuscumbiensis Lea, <u>Unio</u>: 1871, PANSP <u>23</u>: 191 ([Tennessee River]

 Tuscumbia [Colbert Co.], Λlabama; Holston River, East

 Tennessee); 1874, JANSP (2) <u>8</u>: 11, p1. 3, fig. 7; 1874,

 Obs. <u>13</u>: 15. Figured holotype USNM 84593 from the former locality.
- <u>uhareensis</u> Lea, <u>Unio</u>: 1868, PANSP <u>20</u>: 145 (Uharee [Uwharee] River, Montgomery Co., North Carolina); 1868, JANSP (2) <u>6</u>: 304, p1. 46, fig. 116; 1869, Obs. <u>12</u>: 63. Figured holotype USNM 85576.
- umbrans Lea, Unio: see under umbrosus Lea, Unio: 1857.

- <u>umbrosus</u> Lea, <u>Unio</u>: 1856, PANSP <u>8</u>: 95 (Mcdellin River, [Vera Cruz State], Mexico); 1857, JANSP (2) <u>3</u>: 311, pl. 30, fig. 26; 1857, Obs. 6: 31. Figured holotype USNM 84848.
- umbrosus Lea, <u>Unio</u>: 1857, PANSP <u>9</u>: 32 (Othcalooga [Oothkalooga] Creek, Gordon Co., Georgia); <u>non</u> Lea 1856. Changed to:
- <u>umbrans</u> Lea, <u>Unio</u>: JANSP (2) <u>4</u>: 72, pl. 13, fig. 53; 1858, Obs. 6: 72. Figured holotype USNM 85121.
- unicolor Lea, Unio: 1845, PAPS 4: 163 ([Black Warrior River], Tuscaloosa [Tuscaloosa Co.], Alabama); 1848, TAPS 10: 74, pl. 4, fig. 12; 1848, Obs. 4: 48. Known only from the figured holotype USNM 85750.
- uruguayensis Lea, Anodonta: 1860, PANSP 12: 92 (Uruguay River, [Argentina and Uruguay]); 1863, JANSP (2) 5: 393, pl. 48, fig. 302; 1863, Obs. 10: 29. Known only from the figured holotype USNM 86753.
- uruguayensis Lea, <u>Unio</u>: 1860, PANSP <u>12</u>: 90 (Uruguay River, [Argentina and Uruguay]); 1863, JANSP (2) <u>5</u>: 388, pl. 45, fig. 298; 1863, Obs. <u>10</u>: 24. Known only from the figured holotype USNM 85166.
- <u>utriculus</u> Lea, <u>Unio</u>: 1845, PAPS <u>4</u>: 164 (North Carolina); 1848, TAPS <u>10</u>: 69, pl. 1, fig. 3; 1848, Obs. <u>4</u>: 43. Figured holotype USNM 85172.

- <u>validus</u> Lea, <u>Unio</u>: 1871, PANSP <u>23</u>: 189 (Duck River, Tennessee); 1874, JANSP (2) <u>8</u>: 6, pl. 1, fig. 2; 1874, Obs. <u>13</u>: 10. Known only from the figured holotype USNM 84583.
- vallatus Lea, Unio: 1868, PANSP 20: 145 (Alabama River);
 1868, JANSP (2) 6: 315, pl. 50, fig. 128; 1869, Obs. 12:
 75. Known only from the figured holotype USNM 84275.
- vanuxemensis Lea, Unio: 1838, TAPS 6: 36: p1. 11, fig. 31
 (Cumberland River, Tennessee); 1838, Obs. 2: 36.
 Figured holotype USNM 85146.
- <u>vanuxemii</u> Lea, <u>Unio</u>: 1858, JANSP (2) <u>4</u>: 83. New name for <u>Unio vanuxemensis</u> Lea [<u>lapsus calami</u>]. 1858, Obs. <u>6</u>: 83.
 - varicosus Lea, Unio: 1831, TAPS 4, 90, pl. 11, fig. 20 (Ohio);
 1834, Obs. 1: 100. Figured holotype USNM 84320.
- vaughanianus Lea, <u>Unio</u>: 1838, TAPS <u>6</u>: 5, pl. 3, fig. 5

 (Sawneys Creek, near [about 8 mi NW] Camden [Kershaw Co.],

 South Carolina); 1838, Obs. <u>2</u>: 5. Two syntypes USNM 86106

 one a bit smaller than the figure, the other with the outline

 of the figure, but with less prominent rays. The figure

 appears to be a composite.
- venustus Lea, <u>Unio</u>: 1838, TAPS <u>6</u>: 4, pl. 2, fig. 4 (Potosi, [Big River drainage, Washington Co.], Missouri; Cincinnati [Hamilton Co.], Ohio); 1838, Obs. <u>2</u>: 4. Figured holotype USNM 84971 from the former locality.

- veracruzensis Lea, Unio: 1868, PANSP 20: 150 ([Rio Medellin]

 Vera Cruz [Vera Cruz State] Mexico); 1868, JANSP (2) 6:

 320, pl. 52, fig. 133; 1869, Obs. 12: 80. Known only from
 the figured holotype USNM 25432.
- <u>verreauianus</u> Lea, <u>Unio</u>: 1856, PANSP <u>8</u>: 94 (Cape of Good Hope); 1857, JANSP (2) <u>3</u>: 301. pl. 27, fig. 16; 1857, Obs. <u>6</u>: 21. Figured holotype USNM 84418.
- versus Lea, Margaron: 1870, Synopsis of Unionidae, 4th edit.,
 p. 46. New name for Unio inornatus Reeve. See under:
 inornatus Reeve, Unio.
- verus Lea, Unio: 1861, PANSP 13: 40 (Cahawba River, Perry
 Co., Alabama); 1861, JANSP (2) 5: 83, pl. 11, fig. 231;
 1862, Obs. 8: 87. Figured holotype USNM 84589.
- verutus Lea, <u>Unio</u>: 1859, PANSP <u>11</u>: 171 (Flat Rock Creek, near Columbus, [Muscogee Co.], Georgia); 1860, JANSP (2) <u>4</u>: 385, pl. 53, fig. 160; 1860, Obs. <u>8</u>: 17. Figured holotype USNM 85899.
- vesicularis Lea, Unio: 1872, PANSP 24: 156 (Lake Ocheechobee
 Florida); 1874, JANSP (2) 8: 37, pl. 12, fig. 34; 1874,
 Obs. 13: 41. Figured holotype USNM 85292.

- <u>vestitus</u> Lea, <u>Unio</u>: 1861, PANSP <u>13</u>: 393 (Ogeechee River, Georgia); 1862, JANSP (2) <u>5</u>: 189, pl. 25, fig. 259; 1863, Obs. 9: 11. Figured holotype USNM 85332.
- <u>vicinus Lea, Unio</u>: 1856, PANSP <u>8</u>: 262 (Swift Creek, near Macon [Bibb Co.], Georgia); 1858, JANSP (2) <u>4</u>: 61, pl. 9, fig. 43; 1858, Obs. <u>6</u>: 61. Figured holotype USNM 85543.
- virens Lea, Anodonta: 1852, TAPS 10: 290, pl. 28, fig. 53
 (Red River, Alexandria, [Rapides Parish], Louisiana);
 1852, Obs. 5: 46. Figured holotype USNM 86666.
- virens Lea, <u>Unio</u>: 1857, PANSP <u>9</u>: 169 (Georgia); 1858, JANSP (2) <u>4</u>: 80, pl. 16, fig. 60; 1858, Obs. <u>6</u>: 80. Figured holotype USNM 85544.
- virescens Lea, <u>Unio</u>: 1858, PANSP <u>10</u>: 40 (Tennessee River,

 Tuscumbia [Colbert Co.], Alabama); 1860, JANSP (2) <u>4</u>:

 341, pl. 55, fig. 166; 1860, Obs. <u>8</u>: 23. Figured holotype

 USNM 84927.
 - virgulata Lea, Anodonta: 1857, PANSP 9: 86 (Roanoke River,
 Weldon, [Halifax Co.], North Carolina; Washington Co.,
 Georgia); 1862, JANSP (2): 5: 213, pl. 33, fig. 282; 1863,
 Obs. 9: 35. Figured holotype USNM 86593 from the former
 locality.

- viridans Lea, Unio: 1859, PANSP 11: 170 (near Columbus
 [Muscogee Co.], Georgia); 1860, JANSP (2) 4: 337, pl. 54,
 fig. 162; 1860, Obs. 8: 19. Figured holotype USNM 85579.
- <u>viridicatus</u> Lea, <u>Unio</u>: 1857, PANSP <u>9</u>: 170 (Buckhead Creek Burke Co., Georgia); 1858, JANSP (2) <u>4</u>: 87, pl. 18, fig. 67; 1858, Obs. <u>6</u>: 87. Figured holotype USNM 85551.
- <u>viridiradiatus</u> Lea, <u>Unio</u>: 1859, PANSP <u>11</u>: 154 (Big Uchee River [Creek, Russell Co., Alabama] near Columbus, Georgia);
 1860, JANSP (2) <u>4</u>: 336, pl. 53, fig. 161; 1860, Obs. <u>8</u>: 18.
 Figured holotype USNM 86018.
- viridulus Lea, Unio: 1863, PANSP 15: 193 (Neuse River, near [6 mi. E] Raleigh, [Wake Co.], North Carolina); 1866,

 JANSP (2) 6: 10, pl. 3, fig. 7; 1867, Obs. 11: 14. Known only from the figured holotype USNM 85908.
- vittatus Lea, Unio: 1859; PANSP 11: 153 (Australia; Cuming);
 1860, JANSP (2) 4: 249, pl. 38, fig. 128; 1860, Obs. 7:
 67. Figured holotype BMNH 1958.4.3.1; paratype USNM 84407.
 - and abushing to Margaritana 1940 DADS 1, 288 (Igya):
 - vondenbushiana Lea, <u>Margaritana</u>: 1840, PAPS <u>1</u>: 288 (Java);

 1842, TAPS <u>8</u>: 222, pl. 18, fig. 39; 1842, Obs. <u>3</u>: 60.

 Known only from the figured holotype USNM 86348.
 - <u>waccamawensis</u> Lea, <u>Unio</u>: 1863, PANSP <u>15</u>: 193 (Waccamaw Lake, North Carolina); 1866, JANSP (2) <u>6</u>: 16, pl. 5, fig. 16; 1867, Obs. 11: 20. Figured holotype USNM 84437.

- wahlametensis Lea, Anodonta: 1838, TAPS <u>6</u>: 78, pl. 20, fig. 64

 (Wahlamet [Willamette River], near its junction with the

 Columbia River [Oregon]); 1838, Obs. <u>2</u>: 78. Figured

 holotype USNM 86363.
- wardiana Lea, Anodonta: 1838, TAPS <u>6</u>: 46, pl. 14, fig. 42 ([Ohio and Erie Canal] near Chilicothe [Ross Co.] Ohio); 1838, Obs. <u>2</u>: 46. Figured holotype USNM 86488.
- wardii Lea, Unio: 1861, PANSP 13: 392 (Walhonding River, Ohio; Wassepinicon River, Iowa; Coal River, Logan Co., Virginia); 1862, JANSP (2) 5: 187, pl. 24, fig. 257; 1863, Obs. 9: 9. Figured holotype USNM 84237 from the first locality.
- watereensis Lea, <u>Unio</u>: 1836, Synopsis of Naiades, First edit.,
 p. 31. New name for <u>Unio ravenelii</u> Conrad 1834, <u>non Unio</u>
 ravenelianus Lea 1834. Conrad's name was not preoccupied.
 - weldonensis Lea, <u>Unio</u>: 1863, PANSP <u>15</u>: 191 (Roanoke River, Wheldon [Halifax Co.], North Carolina); 1866, JANSP (2) <u>6</u>: 11, pl. 3, fig. 8; 1867, Obs. <u>11</u>: 15. Figured holotype USNM 85407.
- wheatleyanus Lea, Unio: 1856, PANSP 8: 94 (Rio Plata [Argentina], Orbigny; Rio Negro, 1200 mi. from mouth of Amazon [River, Brazil]; Wheatley); 1857, JANSP (2) 3: 308, pl. 29, fig. 3; 1857, Obs. 6: 28. Figured holotype USIPI 85335 labeled, "Montevideo, Uruguay, Wheatley."

- wheatleyi Lea, Anodonta: 1852, TAPS 10: 287, pl. 26, fig. 49 (Para, Brazil); 1852, Obs. 5: 43. Known only from the figured holotype USNM 86723.
- wheatleyi Lea, Unio: 1857, PANSP 9: 85 (Catawba River, Gaston Co., North Carolina). Erroneously thought preoccupied by Lea and changed to: Unio catawbensis, 1861, JANSP (2) 5: 54, pl. 1, fig. 200; 1861, Obs. 8: 58. Figured holotype USNM 85547.
- whiteianus Lea, <u>Unio</u>: 1852, TAPS <u>10</u>: 258, pl. 14, fig. 8 (near Savannah [Chatham Co.], Georgia); 1852, Obs. <u>5</u>: 14. Figured holotype USNM 85658.
- williamsii Lea, Anodonta: 1862, PANSP 14: 169 (Potomac River, below the White House, [District of Columbia]; below Mt.

 Vernon [Fairfax Co., Virginia]; Othcalooga [Oothkalooga]

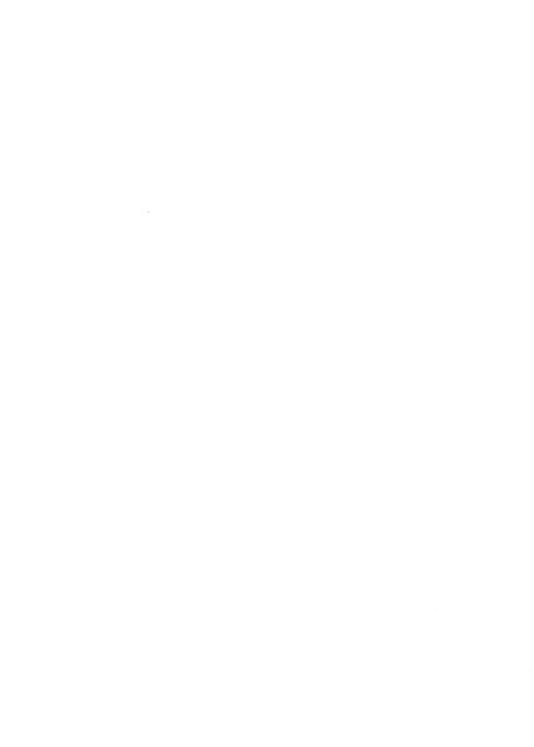
 Creek, Georgia); 1866, JANSP (2) 6: 27, pl. 10, fig. 26;

 1867, Obs. 11: 31. Figured holotype USNM 86687 from the second locality.

- wilsonii Lea, Unio: 1859, PANSP 11: 153 (Eastern Branch of Isaac's Plain [=River, Queensland, Australia); 1860, JANSP (2) 4: 256, pl. 40, fig. 137; 1860, Obs. 7: 74. Holotype ANSP 41817, refigured by McMichael and Hiscock, 1958, Australian Jour. Marine and F. W. Res., 9: 399, pl. 2, figs. 8, 9.
 - woodiana Lea, Symphynota: 1834, TAPS 5: 42, pl. 5, fig. 13
 (China; W. W. Wood); 1834, Obs. 1: 154. Figured type
 not in the USNM or ANSP [lost].
- woodwardius Lea, <u>Unio</u>: 1857, PANSP <u>9</u>: 170 (Etowah and Connasauga Rivers, Cass [now Bartow] Co., Georgia). Changed to:
- woodwardianus Lea <u>Unio</u>: 1859, JANSP (2) <u>4</u>: 199, pl. 23, fig. 82 and pl. 29, fig. 103; 1859, Obs. <u>7</u>: 17. Figured holotype USNM 84444 from the latter locality.
- wrightii Lea, Unio: 1865, PANSP <u>17</u>: 75 (China); 1868, JANSP (2) <u>6</u>: 283, pl. 39, fig. 97; 1869, Obs. <u>12</u>: 43. Figured holotype USNM 84129.
- wymanii Lea, Anodonta: 1860, PANSP 12: 91 (Uruguay River, [Argentina and Uruguay]); 1863, JANSP (2) 5: 390, pl. 44, fig. 294; 1863, Obs. 10: 26. Figured holotype USNM 86609.
- wymanii Lea, <u>Unio</u>: 1860, PANSP <u>12</u>: 90 (Uruguay River, [Argentina and Uruguay]); 1863, JANSP (2) <u>5</u>: 381, pl. 42, fig. 289; 1663, Obs. <u>10</u>: 17. Figured holotype USMM **84378**.

- wynegungaensis Lea, <u>Unio</u>: 1859, PANSP <u>11</u>: 331 (Wynegunga River, 30 mi E of Nagpoor in the Deccan, Bengal); 1860, JANSP (2) <u>4</u>: 271, pl. 45, fig. 151; 1860, Obs. <u>7</u>: 89. Figured holotype USNM 85328.
- yadkinensis Lea, Unio: 1872, PANSP 24: 156 (Yadkin River,
 near Salisbury [Rowan Co.], North Carolina); 1874, JANSP
 (2) 8: 32, pl. 10, fig. 29; 1874, Obs. 13: 36. Figured
 holotype USNM 85387.
- youconensis Lea, Anodonta: 1867, PANSP 19: 81 (Upper Youkon
 River [Alaska]). Changed to:
- youkanensis Lea, Anodonta: 1868, JANSP (2) 6: 287, pl. 40,
 fig. 99; 1869, Obs. 12: 47. Figured holotype USNM 86624.
 - <u>zeiglerianus</u> Lea, <u>Unio</u>: 1838, TAPS <u>6</u>: 32, pl. 10, fig. 27

 (Cumberland River, Tennessee); 1838, Obs. <u>2</u>: 32. Figured holotype USNM 85130.
 - <u>zigzag</u> Lea, <u>Unio</u>: 1829, TAPS <u>3</u>: 444, pl. 12, fig. 19 (Ohio; T. G. Lea); 1834, Obs. <u>1</u>: 54. Type [lost].





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